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SOME PROBLEMS
IN
JAINA PSYCHOLOGY

BY

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To

Shri D C Pavate, M A (Cantab),

Vice-Chancellor, Karnatak University,

Member, University Grants Commission,

sometime Director of Education, Bombay State,

brilliant mathematician,

eminent educationist,

dynamic administrator,

in token of

sincere admiration, respect and gratitude,

this book

is dedicated

PREFACE

A study of Jainism in terms of Western thought is much needed to day With over-specialization in the empirical sciences and in philosophy, we are apt to lose the wood in the trees In this age of 'analysis' it is necessary to re-assess the place of a synthetic approach to the fundamental problems of philosophy and psychology

The present publication is essentially the same as the thesis submitted by me for the degree of Doctor of Philosophy to the Karnatak University, Dharwar It is an attempt to interpret the problems of Jaina psychology in terms of Western thought I am aware that it is not possible to compare the ancient Indian thought with the concepts of modern psychology However, it would be sufficient if I could succeed in pointing out some possible similarities between ways of thinking out problems by ancient Indian Philosophers including the Jainas and thinkers of the West

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Vijayadaśamī,
19th October, 1961

T G KALGHATGI

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SOME PROBLEMS
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INTRODUCTION

The aim of this treatise is to present some problems of Jaina psychology with reference to ancient Indian and Western thought including Western psychological thought, specially of the eighteenth and nineteenth centuries.

Jainism is a realistic philosophy. As a religion it is a polemic against the authority of the *Vedās* and the pseudo-spiritualism of the elaborate sacrificial system of worship. Jainism is an old religion which prevailed even before Pārśva and Vardhamāna, the last two tīrthankaras. The *Yajurveda* mentions Rsabha, Ajita and Aristanemi as tīrthankaras. The *Bhāgavata Purāna* endorses the view that Rsabha was the founder of Jainism.[1] Jainism reflects the cosmology and anthropology of a much older pre-Āryan upper class of North-Eastern India.[2] Jacobi has traced Jainism to early primitive currents of metaphysical speculation.[3] But the Jaina metaphysics, epistemology and psychology have arisen as a result of the interaction of the 'orthodox' ways of Indian thought. The Jaina system of thought arose out of the need to re-assert the Jaina faith against the academic invasions of Hindu thought. Elements of the Hindu and Buddhist theories have been incorporated in the Jaina theory of knowledge. As an example of such interaction we may mention the Jaina theory of *pratyaksa* as a source of knowledge. The original Jaina theory of *pratyaksa* as a direct source of knowledge of the soul and *paroksa* as knowledge due to the sense organs were modified in the light of the prevailing views of other systems of Indian thought. However, in this treatise we are not directly concerned with the problems of the antiquity of Jainism and the chronological order of the Jaina epistemological and psychological theories.

The Indian mind is synthetic. It is the synthetic view that has made our philosophy embrace all branches of knowledge into one comprehensive view. In recent times, the sciences have become independent and they have freed themselves from the bonds of philosophy. But in ancient India, as also in the ancient West, philosophy included all the sciences. For instance, there was no special science of psychology. It was a philosophy of the mind. The term psychology belongs to our 'new world'. Even half a century ago it was a philosophy of the mind or it was at least a mental physiology.[4] Contemporary psychology, especially the British and the American psychology, may be considered as a science detached from the

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1 Radhakrishnan (S.) *Indian Philosophy* Vol. I, p. 287

2 Zimmer (H.) *Philosophies of India*, p. 217

3 Jacobi (Hermann) *Studies in Jainism*—Jainism

4 Rhys Davids (Mrs. *Birth of Indian Psychology*—Introduction

prevailing philosophical systems But, as Murphy shows, German psychology was and still is related to philosophy, and changes in psychology can be traced to developments in philosophy [5]

In the Jaina thought, as also in the ancient Indian thought, the problems of epistemology and the problems of psychology were indistinguishable Epistemology was the basis for the psychological analysis of mental states and events Many problems of psychology were unintelligible without consideration of the basic metaphysical problems Psychology was possible only under the shadow of metaphysics And the Jaina psychology, if it may be called psychology, may be considered to be academic and rational psychology It did not use the method of experiment It relied on introspection and the insight of seers and to some extent on the observation of the behaviour of others The insight of the ancient sages of India gave them a vivid picture of the reality in its various colours It is the insight and the vision of the Jaina sages that built the superstructure of the mental philosophy of experience for the Jainas They did not base their conclusions on experimental investigations This was because the Jaina, as also the Indian mind generally, was not interested in the analysis of the things of the world Experimental investigation had little meaning for them

PLAN OF THE WORK

This treatise is analytic and interpretative It is not possible to compare the problems of Jaina psychology with the present problems in psychology, because psychology in the present day has become an objective and a concrete science using experimental methods for investigation In the modern age, increase in knowledge has meant increase in specialization The specialized developments of the problems of modern psychology cannot be easily compared with the ancient psychological problems that the Jaina and the other Indian thought presented We can only show that some problems in Western psychology have developed on similar lines to those presented in the Jaina philosophy The problems of modern psychology have developed in a more exact and measurable direction This cannot be said of the ancient Jaina thought However, the basic problems were the same and the approach was similar In this sense, some theories of psychology have been mentioned here by way of comparison The object is to show a few possible similar developments in the field of psychological investigations in the Jaina, ancient Indian and Western thought

This work begins with the study of the *self* in Jaina philosophy Discovery of the *self* was the main problem of Indian philosophy The effort of Indian philosophy has been to know the *self* and make the knowledge effective in human life

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5 Murphy (G) *Historical Introduction to Modern Psychology*—Preface

The first chapter, therefore, discusses the problem of the soul in Jaina thought The idea of the soul has occupied an important position in Indian thought Jainism makes a dichotomous division of the categories into *jīva* and *ajīva* *Jainism* considers the soul from the noumenal point of view, *niścaya naya*, and the phenomenal point of view, the *vyavahāra naya* The psychological implications of the nature of the soul have been discussed in this chapter

The second chapter deals with the Jaina theory of mind in all its aspects Jainas make a distinction between the two phases of the mind as (i) the material phase (*dravya manas*) and the mental phase (*bhāva manas*) The first phase refers to the structural aspect, and the second refers to the mental and functional aspects The Jainas make mind a quasi-sense organ Similarly, it is *aprāpyakāri*, as it does not come into physical contact with the object These problems have been fully discussed with special reference to Indian and Western thought

The main problems in the third chapter are the interpretation of *upayoga*, *jñāna* and *darśana* *Upayoga* is the essential characteristic of the soul It is interpreted here as the *horme* of the modern psychologists *Cetanā*, or consciousness, is the psychic background of all experiences *Jñāna* and *darśana* are the manifestations of *upayoga* in the light of the psychic background of *cetanā* Other problems concerning consciousness, like the states of consciousness and self-consciousness, have also been analysed The Jainas, as other Indian philosophers, were aware of the unconscious in its psychological and metaphysical aspects In the end, a note on *paśyattā*, interpreted as *mneme*, is also added

In the fourth chapter we come to the analysis of sense organs and sense qualities The Jainas have given a detailed description of the nature and function of the sense organs They have accepted five sense organs They do not recognize motor organs of experience They make a distinction between the structural aspect (*dravyendriya*), and the psychic aspect (*bhāvendriya*) The visual sense organ is *aprāpyakāri*, as it does not come into physical contact with the object The other four sense organs are *prāpyakāri*, because of the physical contact with the object for cognition Similarly, the psychological analysis of the sense qualities, as presented by the Jainas, is given in this chapter

The fifth chapter deals with the problem of empirical experience It is the problem of perception The Jaina analysis of perception is complex and elaborate It has a great psychological significance The Jainas mention four stages of perception (i) *avagraha*, the stage of sensation, (ii) *īhā*, the stage of integration of sense impressions, (iii) *avāya*, perceptual judgment, and (iv) *dhāraṇā*, retention These problems have been discussed in the light of the analysis of perception

In the sixth chapter we come to the problem of other sources of empirical experience Retention (*dhāranā*), recollection (*smrti*), and recognition (*pratyabhijñā*) are factors involved in memory This chapter gives the analysis of retention as the condition of memory, and recollection and recognition as forms of expressing memory Similarly, the psychological implications of inference (*anumāna*) as a source of knowledge have also been analysed

In the seventh chapter the problem of supernormal perception is discussed The Jainas believe that sense experience is not sufficient to give the experience of reality They accept the possibility of direct experience without the instrumentality of the sense organs and the mind They called this *pratyaksa* This is the supernormal perception All schools of Indian thought, except the *Cārvāka*, accept the possibility of supernormal experience The Jainas have given three levels of supernormal perception (i) *avadhi*, (ii) *manahparyāya* and (iii) *kevala*, although *avadhi* may not be called supernormal experience *Avadhi* may be compared to clairvoyance, and *manahparyāya* may be likened to telepathic cognition The two forms of supernormal experience have been analysed with reference to the investigations of modern psychical research For the *kevala* there is no comparison It is the state of omniscience

Chapter eight gives the description of the fourteen stages of the struggle for the realization of the *self* They are called *gunasthānas* in Jainism The transcendental *self* is to be realised The way to self-realization is long and difficult It is a struggle for emancipation and for the attainment of perfection In the fourteenth stage one reaches the consummation of self-realization This is the stage of *kaivalya*, or *niranjana* The struggle for perfection in the fourteen stages is psychologically important, although empirical psychology will not be able to explain the significance of these stages

CHAPTER I

THE JAINA THEORY OF THE SOUL

The problem of the soul has been a perennial problem in religion and speculative philosophy Primitive man had made a distinction between body and soul The burial of the dead with their belongings and even the mummification of the Egyptians are based on such a distinction between body and spirit The philosophical concept of the soul has developed from such primitive distinctions

In modern psychology, the idea of the soul is no longer important In its place has come the notion of *self* or the centre of interest ' The word soul' is ambiguous Sometimes it stands for mind, sometimes for *self* and sometimes for both The English word points to an entity as the cause or vehicle of physical or psychical activities of the individual person The soul is a spiritual substance In Indian thought the word *ātman* has undergone various changes It is little used in the *Vedas* It primarily meant breath In the *Upaniṣads* another word, *prāṇa*, is used for breath, and *ātman* stands for the innermost part of man Man was *ātmavat* For the Upaniṣadic seers, the soul was a presupposition for all experiences Indian philosophies, with the exception of *Māyāvāda* of Śamkara and *Kṣaṇikavāda* of the Buddhists, fundamentally agree about the nature of the soul as a permanent, eternal and imperishable substance But the primitive Āryans believed that the life of man is continued after death in a shadowy existence in some subtle bodily form This is not the soul of the later philosophers Jacobi calls it the psyche [1] This is the development of the primitive notion of life after death lingering in some form It is found even to-day in the practice of *śrāddha* The psyche is frequently spoken of as *puruṣa* and of the size of the thumb (*aṅguṣṭa-mātra*) At the time of death it departs from the body In the oldest *Upaniṣads* the psyche is described as constituted by the *prāṇās*, psycho-physical factors Still, these factors were not regarded as principles of personality

The idea of the soul has occupied an important position in Jaina philosophy Jainism aims at the liberation of the soul from the cycle of birth and death The saving of the soul is the Christian ideal In the *Apology*, Plato makes Socrates say that his mission was to get men to care for their souls and to make them as good as they can be

Jainism is dualistic There is a dichotomous division of categories All things are divided into living and non-living, souls and

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1 Jacobi (Hermann) *Studies in Jainism —The Place of Jainism in Indian Thought.*

non-souls In the first verse of the *Dravyasamgraha*, we read, "The ancient among the great Jainas have described the *dravyas* as *jīva* and *ajīva*" *Jīva* is a category, and *jīva* personalised becomes *ātman* Jainism believes in the plurality of souls Souls are substances distinct from matter Souls influence one another But they are quite distinct from one another and not connected in any higher unity They may be called spiritual monads Jainism emphasizes the diversity of souls Amongst the Muslim theologians, Nazam and his school maintained that the soul is a spiritual substance

Jainism considers the soul from two points of view the noumenal (*niścaya naya*) and the phenomenal (*vyavahāra naya*) The *Dravyānuyogatarkana* of Bhoja describes the distinction as mentioned in the *Viśeṣāvaśyakabhāṣya* by saying that the *niścaya* narrates the real things and the *vyavhāra* narrates things in a popular way In the *Samayasāra*, Kundakundācārya points out that the practical standpoint is essential for the exposition of the inner reality of things, as a non-Āryan is never capable of understanding without the non Āryan tongue [2]

The existence of the soul is a presupposition in the Jaina philosophy Proofs are not necessary If there are any proofs, we can say that all the *pramānas* can establish the existence of the soul 'Oh Gautama, the soul is *pratyaksa*", said Mahāvīra, "for that in which your knowledge consists is itself soul" What is *pratyakṣa* need not be proved like the pleasure and pain of the body It is *pratyakṣa* owing to the *aham-pratyakṣa*, the realization of the '*I*', which is associated with the functions pertaining to all the three tenses [3] William James and James Ward present self-consciousness in this form Ward talks of the internal perception' or self-consciousness The last order of knowledge of the duality of subject and object is an indispensable condition of all actual experience however simple It is, therefore, first in order of existence It is the subject of experience that we call the pure ego or *self* [4] William James says, ' For, this central part of the *self* is felt It is something by which we also have direct sensible consciousness in which it is present, as in the whole life-time of such moments "[5] Thus, one who ignores the self-evidence of the soul is like one who says that sound is inaudible and the moon is devoid of the moon The existence of the soul can be inferred from the behaviour of others Similarly, the soul exists because, "it is my word, O Gautama!"[6]

The *jīva* is described from the noumenal and phenomenal points of view From the noumenal point of view, the soul is described

2 Jaini (J L) Ed *Samayasāra* 38

3 *Gaṇadharavāda* 6

4 Ward (James) *Psychological Principles*, p 370 (1918)

5 James (William) *Principles of Psychology*, Vol. I Ch X p 298

6 *Gaṇadharavāda*, 34.

in the pure form The phenomenal describes the empirical qualities of the soul From the pure point of view, it is not associated with body or any physical or mental qualities Mahāvīra points out to the third Ganadhara that the soul is different from the body and its senses, just as Devadatta recollects an object perceived through the five windows of the palace, which is different from the palace and the five windows, so also a person recollecting an object perceived through the five senses of the body is different from the senses and the body [7]

The Buddhist impermanence of the soul is also refuted Buddhists had said that there was no *self* except the *khandas* Kundakundācārya points out that from the noumenal point of view the soul and the body are not one, although in worldly practice the soul having a beautiful body is called beautiful and fair like the beautiful body of the living *arhat* [8] In the *Chāndogyopaniṣad*, in the dialogue between Yājñyavalkya and Janaka, the idea of the *self* is progressively brought out by showing that it is not physical nor a dream-state

From the noumenal point of view, the soul is pure and perfect It is pure consciousness From the real point of view, the soul is unbound, untouched and not other than itself The soul is one and not composite In the *Sthānāṅga* we get a description of the soul as one (*ege attā*) The commentator describes it as *ekavidhah ātmanah* [9] In *Samavasāra*, Kundakundācārya describes the absolute oneness of the soul 'on the strength of my self-realization "[10] This does not mean that the *self* is one in the Vedāntic sense of cosmic *self* It does not contradict the plurality of souls in Jainism It only emphasizes the essential identity of souls *Jivas* in all their individual characteristics are essentially the same If the soul were one, then, "O Gautama! there would not be *sukha, duhkha, bandha, mokṣa* etc " Individual souls are different like the *kumbhas* [11]

The nature of *jīva* has been well described by Nemicandra in his *Dravyasamgraha* He describes the soul both from the noumenal and phenomenal points of view He says that *jīva* is characterised by *upayoga*, is formless and is an agent It has the same extent as its body It is the enjoyer of the fruits of *karma* It exists in *samsāra* It is *siddha* and has a characteristic of upward motion [12] We get a similar description in the *Pañcāstikāyasāra* of Kundakundācārya *Jīva* is formless It is characterised by *upayoga* It is attached to *karma* It is the Lord, the agent and the enjoyer of the fruits of *karma* It pervades

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7 *Ganadharavāda* 109, ond *Sūtrakṛtāṅga* 33

8 *Samayasāra*, 39, 42

9 As quoted in *Abhidhānarājendra*, Vol II *Attā*

10 *Samayasāra* 5

11 *Gaṇadharavāda*, 34

12 *Dravyasamgraha*, 2

bodies large or small It has a tendency to go upward to the end of *loka*, being freed from the impurities of *karma* [13] *Tattvārthasūtra* describes the nature of the soul as possessing *upayoga* as its essential characteristic

Every *jīva* possesses an infinite number of qualities Glasenapp, in his *Doctrine of Karma in Jaina Philosophy*, mentions eight important characteristics

1 The faculty of omniscience (*kevala jñāna*)
2 The faculty of absolute undifferentiated cognition (*kevala darśana*)
3 Superiority over joy and grief
4 Possession of belief in complete religious truth (*samyaktva*), and irreproachable moral conduct (*cāritra*)
5 Possession of eternal life (*akṣayasthiti*)
6 Complete formlessness (*amūrtatva*)
7 Unrestricted energy (*vīryatva*)
8 Complete equality in rank with other *jīvas*

The first characteristic of the soul is *upayoga* The word *upayoga* is difficult to define It is the source of experience The cognitive, conative and affective aspects spring from it It is a differentia of the living organism Umāsvāti says that *upayoga* is the essential characteristic of the soul [14] *Upayoga* has conative prominence It may be called *horme* in the sense that McDougall has used the term It is a vital impulse or urge to action P T Nunn has stated that *horme* is the basis of activity that differentiates the living animal from dead matter It is like Schopenhauer's 'will to live, and Bergson s *élan vital* *Jñāna* and *darśana* are manifestations of *upayoga*

Citta or *cetanā* as a characteristic of the soul is important in Indian philosophy In the *Dravyasamgraha*, *jīva* is described as possessing *cetanā* from the noumenal point of view *Cetanā* is a sort of inclination which arises from *upayoga* This inclination branches in two directions—*jñāna* and *darśana* *Darśana* may be said to be undifferentiated knowledge *Jñāna* is cognition defined The *jīva* has infinite *jñāna* and *darśana* But certain classes of *karma*, like *jñānāvaranīya* and *darśanāvaranīya karma*, tend to obscure and confuse the essential nature of the *jīva* From the phenomenal point of view, *darśana* and *jñāna* tend to manifest themselves in eight kinds of *jñāna* and four kinds of *darśana*

The possession of *upayoga* raises the question whether the *jīva* possesses *upayoga* and is yet different from it, or whether it is identical with it The *Nyāya* theory does not recognize the identity of quality and

13 *Pancāstikāyasāra* 27 28
14 *Tattvārthādhigamasūtra*, Ch II, 8

its possessor. Jainism asserts that only from the phenomenal point of view they are separable In *Pañcāstikāyasāra* we read "Only in common parlance do we distinguish *darśana* and *jñāna* But in reality there is no separation "[15] The soul is inseparable from *upayoga* *Horme* is an essential characteristic of the living organism It is manifested in the fundamental property experienced in the incessant adjustments and adventures that make up the tissue of life and which may be called drive or felt tendency towards an end [16] Animal life is not merely permeated by physical and chemical processes, it is more than that Even the simplest animal is autonomous

The soul is simple and without parts It is formless As the soul is *immaterial* it has no form This quality has been mentioned in other systems also The Jaina thinkers were against the Buddhist idea of the soul as a cluster of *khandas* Buddhists do not refer to the permanent soul It is a composite of mental states called *khandas* "In modern Western thought", Hume says, "when I enter most intimately into what I call *myself*, I always stumble upon some particular perception or other of heat or cold, light or shade, love or hatred, pain or pleasure I never catch *myself* any time without perception, and never can observe anything but the perception "[17] Hoffding stated that the ego has been looked for in vain as something absolutely simple The nature of the ego is manifested in the combination of sensation, ideas and feelings But Herbart maintains that the soul is a simple being not only without parts but also without qualitative multiplicity Modern psychology has emphasized substantiality, simplicity, persistence and consciousness as the attributes of the soul Descartes has said, "I am the thing that thinks, that is to say who doubts, who affirms who loves, who hates and feels ," this and he designates this thing as substance [18]

Hamilton advocated the four characteristics with the greatest explicitness Other prominent names are those of Porter, Calkins, Angell and Aveling [19]

From the phenomenal point of view, *jīva* is also described as possessing four *prāṇas* They are sense (*indriya*), energy (*bala*), life (*āyu*), and respiration (*ana*) *Pañcāstikāyasāra* gives the same description The idea of *prāṇa* is found in Indian and Western thought In the *Old Testament* (Genesis Book I) we read, "The Lord God breathed into the nostril the breath of life and man became a living soul " In the primitive minds we find the conception that the wind gave men life When it

15 *Pañcāstikāyasāra*, 41
16 McDougall (William) *An Outline of Psychology* Ch 3
17 Hume (David) *Treatise of Human Nature* Book I Pt IV, 6
18 Descartes *Meditations II*
19 Spearman (C) *Psychology Down the Ages* Vol I Ch XXI pp 391—92

ceases to blow, men die In the Navaho legend there is a description of the life force according to which we see the trace of the wind in the skin at the tips of fingers *Prānas* refer to psycho-physical factors of the organism The *jīva* assumes the bodily powers when it takes new forms in each new birth Whatever thing manifests in the four *prānas* lives and is *jīva*[20] The four *prānas* are manifest in ten forms The *indriya* expresses itself in five senses *Bala* may refer to the mind, the body and speech *Āyu* and *ana* are one each These *prānas* in all their details need not be present in all organisms, because there are organisms with less than five sense organs But there must be the four main characteristics The most perfectly developed souls have all the ten *prānas* and the lowest have only four This has a great biological and psychological significance Comparative psychology points out that in the psycho-physical development of the various animal species at the lower level, the chemical sense which is affected by chemical reaction is the only sense function, and it later becomes the separate sense of taste and smell Experimental investigations carried by Riley and Forel point out that the chemical sense is used by insects like moths even for mating Forel has given a topo-chemical theory for explaining the behaviour of bees As we go higher in the scale of life, the chemical sense plays little part In birds, sight and smell are well developed In mammals, we find a higher degree of qualitative discrimination of smell As we go higher still, we get the variability of adaptation which may be called intelligence

In the *Brāhmanas* and the oldest *Upanisads* there is a description of the psyche as consisting of five *prānas* They are regarded as factors of the physico-psychological life Occasionally, more than five *prānas* are mentioned But still the idea of a permanent *self* had not shaped itself In the third *adhyāya* of the *Brhadāranyakopanisad* Yājñyavalkya was asked to explain what happens to a person after the body has been dissolved, and the parts of the psyche has been remitted to the fire and wind He avoids the discussion and suggests that *karma* remains after death[21] This was a step forward towards the formation of the permanent *self* *Brhadāranyakopanisad* also contains a discussion about the constituent parts of the soul Eight instead of five have been suggested *Vijnāna* and *retah* are mentioned This *vijnānamayapurusa* comes nearer to the conception of the soul, although personal immortality is not emphasized In Jainism also, the idea of a permanent soul possessing *prānas* must have developed on the same lines

From the phenomenal point of view, the soul is the Lord (*prabhu*), the doer (*kartā*), enjoyer (*bhoktā*), limited to his body (*dehamātra*), still

20 *Pañcāstikāyasāra*, 30

21 Ranade (R D) *A Constructive Survey of Upanisadic Philosophy*, p 181 (1926)

incorporeal, and it is ordinarily found with *karma* As a potter considers himself as a maker and enjoyer of the clay pot, so, from the practical point of view, the mundane soul is said to be the doer of things like constructing houses and the enjoyer of sense objects [22] As the soul produces impure thought-activities and as a consequence, the material *karmas*, it also enjoys thoughts with the help of the material *karmas* Thus, *jiva* enjoys its thought-created activity However, from the noumenal point of view, *jiva* is the doer of *śuddha bhāvas* or pure thought (*karmas*), and from the phenomenal point of view, it is the doer of *pudgala karmas* or *karmic* matter [23] The distinction between the formal cause (*nimitta*), and material cause (*upādāna*), has been introduced for the description of the soul The Jainas say that the soul is the efficient cause of the material *karmas* The *jīva* possesses consciousness, and consciousness manifests itself in the form of various mental states These mental states are responsible for activities which produce material *karmas* It is, therefore, asserted that *jīva* is the agent of thought—*karmas* indirectly of the *karmic* matter The *Pañcāstikāyasāra* describes the *ātman* as the agent of its own *bhāvas* But it is not the agent of *pudgala karmas* [24] Jainism emphasizes the activity of the *jiva* as against the *Sāmkhya* view of the passive *udāsīna purusa* As a consequence of activity, the *jīva* experiences happiness and misery But Nemicandra says that it is only from the phenomenal point of view From the noumenal point of view, *jīva* has consciousness and it enjoyes eternal bliss In the *Dravyasamgraha* we read, "*Niccayanayado cedana bhāvam khu adassa*" The joys and sorrows that *jīva* experiences are the fruits of *dravya-karma* But Buddhism believes that the agent never enjoys the fruits of *karma* James Ward giving the general characterization of the 'varied contents of the empirical *self*' says that the *self* has first of all (*a*) a unique interest and (*b*) a certain inwardness, further it is (*c*) an individul that (*d*) persists (*e*) is active, and finally it knows itself [25]

But the process of entanglement in activity and enjoyment is beginningless It gets entangled in the *samsāra* and embodied through the operation of *karmas* The soul gets various forms due to the materially caused conditions (*upādhic*), and it is involved in the cycle of birth and death It is subjected to the forces of *karmas* which express themselves first through the feelings and emotions and secondly in the chains of very subtle kinds of matter, invisible to the eye and the ordinary instruments of science When the soul is embodied, it is affected by the environment—physical, social and spiritual, in different ways Thus, we get the various types of soul existence The soul embodies itself

22 *Pañcāstikāyasāra* 27 and *Samayasāra*, 124

23 *Dravyasamgraha* 8, 9

24 *Pañcāstikāyasāra* 6, 28

25 James (Ward) *Psychological Principles*, Ch XV p 368 (1918).

and identifies itself with the various functions of the bodily and social environment William James distinguishes between the *self* as known or the *me*, the empirical ego as it is sometimes called, and the *self* as knower or the *I*, pure ego The constituents of the *me* may be divided into three classes the material *me*, the social *me* and the spiritual *me* The body is the innermost part of the material *me* Then come the clothes, our home, and property They become parts of our empirical ego with different degrees of intimacy A man's social *me* is the recognition that he gets from his fellowmen A man has as many *selves* as there are individuals and groups who recognize him The spiritual *me* also belongs to the empirical *me* It consists of the "entire collection of consciousness, my psychic faculties and disposition taken concretely" But the pure *self*, the *self* as the knower, is very different from the empirical *self* It is the thinker, that which thinks This is permanent, what the philosophers call the soul or the transcendental ego[26] James Ward also makes a distinction between the *self* known or the empirical ego, and the pure *self* For him, the empirical ego is extremely complex It is the presented *self* The earliest element is the presented *self*, the bodily or the somatic consciousness But they never have the same inwardness as "the sense of embodiment" We also find a certain measure of individual permanence and inwardness that belongs to the *self* We may call this 'the sensitive and the appetitive *self*' With the development of ideation there arises what we call the inner zone, having still greater unity and permanence This is the imaging and desiring *self* At the level of intellection, we come to the concept that every intelligent person is a person having character and history and his aim in life through social interaction This gives conscience, a social product as Adam Smith has said At this stage a contrast between the thinker and the object of thought is clearly formed This is the thinking and willing *self* At this stage, even the inner ideation and desire become outer, no longer strictly *self* The duality of subject and object is the last order of knowledge and is the indispensable condition of all actual experience It is the subject of experience that we call pure ego or *self*[27]

The Jaina thinkers made a distinction between the states of the soul as *bahirātman*, *antarātman* and *paramātman* *Bahirātman* consists in the identification of the *self* with body and external belongings It is the bodily *self* In this we say, 'I am the body, I am lean etc' This identification is due to ignorance The same soul is in the *karmāvasthā* and is characterized by *śuddha caitanya* and bliss It is free from all sense of otherness It has discriminative knowledge This conscious *self* is *antarātman* in the *samyagdrsti gunasthāna* The pure and perfect *self*

26 James (William) *Principle of Psychology*, Vol I p 292

27 James (Ward) *Psychological Principles*, Ch II

which is free from the impurities of *karma* is the *paramātman* It is characterized by perfect cognition and knowledge It is freed and is a *siddha* This *paramātman* is *jñānamaya* and is pure consciousness. It cannot be known by the senses It has no *indriyas* and no *manas* From the noumenal point of view, these are the attributes of the soul [28] The Jaina approach to the problem is metaphysical It contains elements of psychological investigation, but the language is the language of metaphysics Modern psychologists, especially the rational psychologists, stopped at psychological analysis and explained the process of realizing the pure nature of the *self* from the empirical stage to the stage of pure ego But the transcendental *self* is not the subject of psychology William James has said that states of consciousness are all that psychology needs to do her work with 'Metaphysics or theology may prove the existence of the soul, but for psychology the hypothesis of such a substantial principle of unity is superfluous'[29]

Jainism refers to the size of the soul Although souls are not of any definite size, they contract and expand according to the size of the body in which they are incorporated for the time being The soul is capable of adjusting its size to the physical body, as the lamp placed in a large or small room illuminates the whole space of the room *Nemicandra* describes it as the phenomenal characteristic of the soul From the noumenal point of view it is said to exist in innumerable *pradeśas* [30] In respect of the elasticity of the soul, Jainism differs from the other schools of Indian thought As Jacobi says, the Jainas have a tenet of the size of the soul which is not shared by other philosophers [31]

Some philosophers like the *Vaiśeṣikas*, Democritus and the atomists, thought of the soul as atomic Some others talked of the omnipresence of the soul Jacobi says that the original *Vaiśeṣika* was not clear on this point Some *Sāmkhya* writers preferred the soul to be infinitely small, while *Īśvara Kṛṣṇa* and later writers characterized it as all-pervading [32] The spatial view of the habitation of the soul had occupied the minds of the *Upaniṣadic* philosophers *Upaniṣadic* psychology agrees with the Aristotelian in localizing the soul in the heart It was later thought that it was in the brain *Yogic* and *tāntric* books recognized the cerebro-chemical processes, and consciousness was traced to the brain In the *Taittirīyopaniṣad* (1 6 1 2) we read that the soul in the heart moves by a passage through the bones of the palate, right up to the skull, where the hairs are made to part The soul in the heart is called *manomaya* In the *Kauṣītaki Upaniṣad* the soul is

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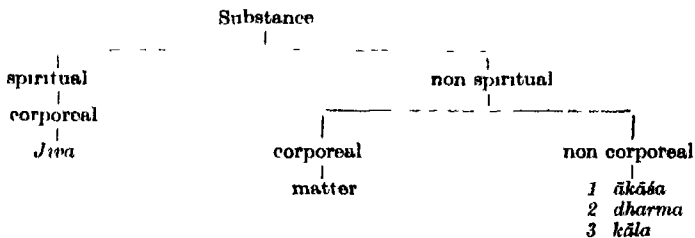
28 *Paramātmaprakāśa*, 31

29 James (William) *Briefer Course*, p 203

30 *Dravyasamgraha*, 10

31 Jacobi (Hermann) Ed by Jina Vijaya Muni *Studies in Jainism*, p 83

32 *Ibid*, p 84

described as the master of all bodily functions The senses depend on the soul as 'relatives on the rich' The *self* is immanent in the whole body, and is hidden in it This passage leads to the view, like the Jaina view, that the soul fills the body Different other accounts are given in the *Upanisads* In the *Bṛhadāranyaka* the *self* is described as small as a grain of rice or barley In the *Kathopanisad* we find that the soul is of the size of the thumb [33] It dwells in the centre of the heart In the *Chāndogya*, it is said to be of the measure of the span between the head and the chin William James traces the feeling of *self* to the cephalic movements He says that the *self* of *selves* when carefully examined is found to consist mainly in the collection of these peculiar motions in the head or between the head and the heart [34] Descarates maintains that the seat of the soul is the pineal gland Fichte holds that the soul is a space filling principle Lotze says that the soul must be located somewhere in the matrix of the arterial brain events These accounts tend to make us believe that the soul is something material which occupies space It is sometimes pointed out that the idea of the spatial attributes of the soul constitutes a contradiction If the soul has no form it cannot occupy space, even the infinite *pradeśas*, and if it is *immaterial*, it cannot have form However, this contradiction is due to the difficulties of expressing the *immaterial* in terms of the *material* This has been the perennial problem of philosophy, because the *immaterial* has no vocabulary of its own The Greeks had the same difficulty Plato had to resort to allegories and myths for expressing the *immaterial* In Jainism, although the description of the soul is not metaphorical, it is just an attempt to come nearerest to *immaterialism* It may be that the difficulty is due to the complexity of substance in Jainism Jainism gives the cross division of substances as spiritual and non-spiritual, and again as corporeal and non-corporeal Non-spiritual is *ajīva* In the non-spiritual, we get the non-corporeal substance like *dharma* and *adharma*, and there is the corporeal which is called *pudgala* From the phenomenal point of view, *jīva* comes under the spiritual but corporeal The corporeal need not necessarily be material The classification is as follows

33 Ranade (R D) *A Constructive Survey of Upanisadic Philosophy*, p 138 (1926)
34 James (William) *Principles of Psychology* Vol I p 301

If this division is accepted, there need be no contradiction Again, when size is attributed to the soul, it is possible that it refers to the sphere or extent of the influence that is intended In the *Pañcāstikāyasāra* we read that just as a lotus hued ruby, when placed in a cup of milk, imparts its lustre to the milk, the soul imparts its lustre to the whole body [35]

Jīva is characterized by upward motion *Nemicandra* describes the pure soul as possessing *ūrdhvagati* In the *Pañcāstikāyasāra* it is said, when the soul is freed from all impurities it moves upward to the end of *loka* [36] For Plato, the soul was, above all, the source of motion It is only the *self* that moves In the *Phædrus*, Socrates says in his second speech, "The soul is immortal, for that which is ever in motion is immortal" The *self* never ceases to move and it is the fountain and the beginning of motion to all that moves The movement of the soul in *samsāra* is due to its association with *karma*, but by nature it has the upward motion which it adopts when it is free from *karma* But it has to stop at the top of the universe beyond which no movement is possible in pure space which is devoid of the medium for motion The Jaina conception of the soul as possessing *ūrdhvagati* is more an ethical expediency than a metaphysical principle or a psychological fact

All these attributes belong to the nature of every soul and they are clearly seen if the *jīvas* are pure and free However, most of the *jīvas* are not pure and free They are contaminated by some foreign elements which veil their purity and perfection The foreign element is *karma* very fine matter, imperceptible to the senses, and which enters into the soul and causes great changes The souls are then involved in the wheel of *samsāra* They become *samsārins*

The *samsāri jīvas* are classified on the basis of various principles, like the status and the number of sense organs possessed by them They are the *sthāvara jīvas*, immovable souls This is the vegetable kingdom Sir J C Bose has pointed out that the vegetable world has capacity for experience They are one sensed organisms Earth, water, fire and plants are such *jīvas* They possess the sense of touch This view is peculiar to Jainism *Trasa jīvas* (moving souls) have two to five senses Worms, oysters, conches etc, possess taste and touch Ants, bugs and lice have three senses—taste, touch and smell Mosquitoes, bees and flies possess four senses—taste, touch, smell and sight And birds, beasts and men have all the five senses Again, five sensed organisms may possess mind They are called *samanaska* They may be bereft of mind (*amanaska*)

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35 *Pañcāstikāyasāra*, 33
36 *Ibid*, 79

In *Gommatasāra Jīvakānda,* we get a detailed classification of *samsāri jīvas* This classification is shown in Table I

Comparative psychology points out that there have been various stages in the development of animal life The first simple animals, the protozoa, are possessed of one sense In fact, till we reach the insect species we find that the chemical sense predominates Positive, negative and food reactions are mainly due to the chemical sense As we go up the animal scale, we find sensory discrimination in qualitative distinctions Even the other senses get discriminated and developed as we proceed in the development of animal life Similarly, the distinction between the *jīvas,* as *paryāpta* and *aparyāpta,* has great psychological significance *Gommatasāra* thus illustrates the *paryāpta,* developed, "as the things like the room, jars, and clothes are full or empty, so the *jīvas* should be understood to be complete or incomplete "[37] *Jīva* becomes *paryāpta* with the absorption of *karmic* matter for building up its body, sense, respiration and *manas* One-sensed organisms become complete with the possession of food, drink, body, sense, and respiration Similarly, the possession of these attributes makes the first four-sensed organisms *paryāpta* or complete For five-sensed organisms all the six are necessary In the absence of these the *jīvas* are incomplete Comparative psychology has shown that sensory discrimination has been a gradual process Miss Washburn points out that ability to distinguish between the different sensory experiences depends on several factors, like the nature of the sense organs and the ability to make varied reaction movements [38] On the basis of these investigations, three different classes of senses, like the chemical sense, hearing and sight, have been mentioned The chemical sense is manifested in the combined senses of taste and touch As sensory discrimination becomes more complex, the mental life of the animal becomes more developed and pronounced

These characteristics of the soul are mentioned from the practical point of view Defilement of the soul takes place when the *karma* pours into the soul This is called *āśrava* The soul then begins to experience mundane and emotional experiences like the passions The *karma* which comes into contact is retained The soul is eternally infected with matter Every moment it is getting new matter In the normal course of things, it has no end But the deliverance of the soul from the wheel of *samsāra* is possible by voluntary means By the process of *samvara* the soul can stop the influx of *karma,* by *nirjarā* it can eliminate the *karma* already glued to the soul Then all obstacles are removed and the soul becomes pure and perfect, free from the wheel of *samsāra* Being free, with its upward motion the *jīva* attains the liberation or *moksa*

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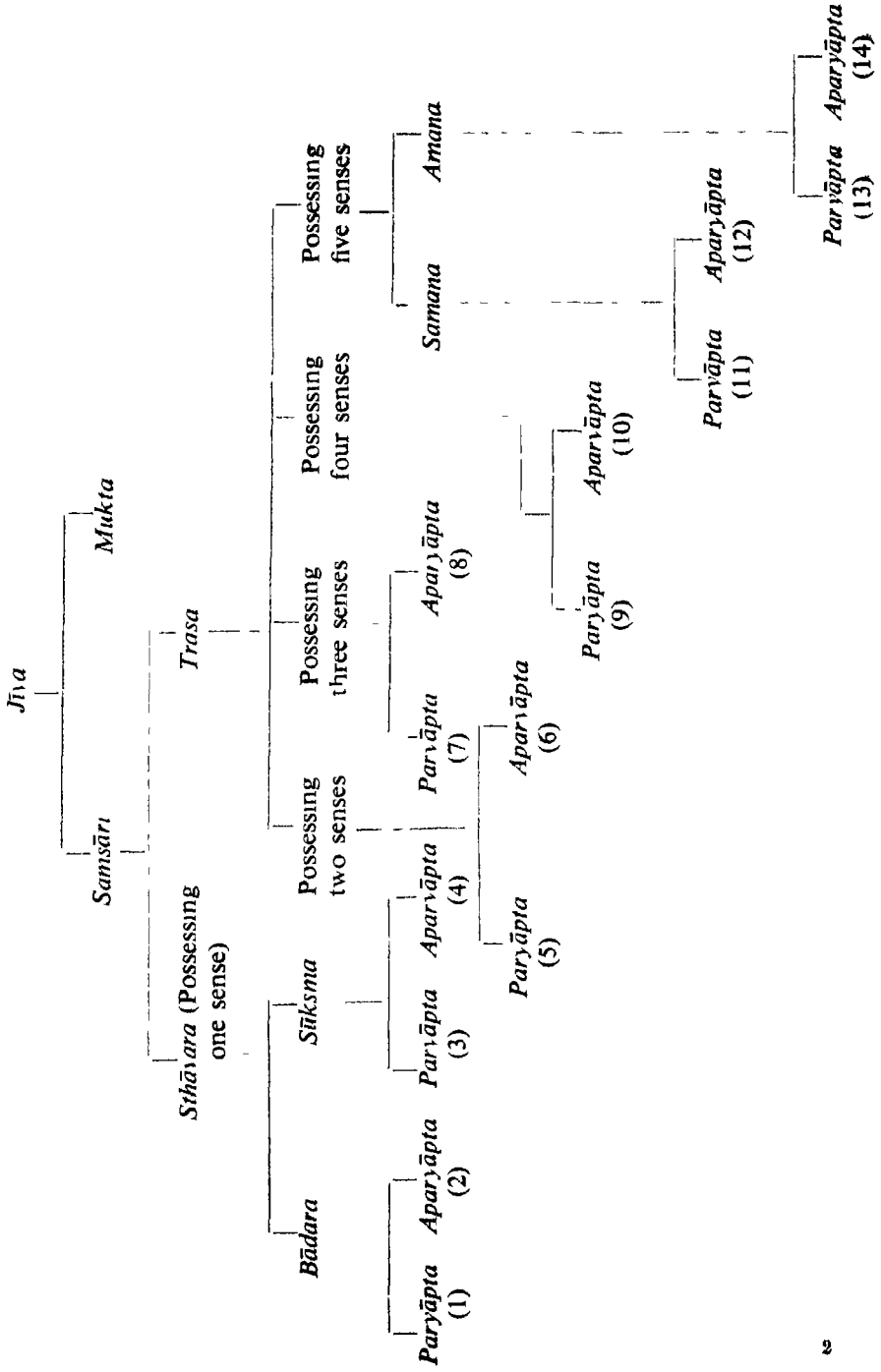
37 *Gommatasāra* p 118

38 Washburn (Miss) *The Animal Mind,* Ch V (1936)

TABLE No. I
Jīva
Saṁsārī
Mukta
Sthāvara (Possessing one sense)
Trasa
Bādara
Sūkṣma
Possessing two senses
Possessing three senses
Possessing four senses
Possessing five senses
Paryāpta (1)
Aparyāpta (2)
Paryāpta (3)
Aparyāpta (4)
Paryāpta (7)
Aparyāpta (8)
Samana
Amana
Paryāpta (5)
Aparyāpta (6)
Paryāpta (9)
Aparyāpta (10)
Paryāpta (11)
Aparyāpta (12)
Paryāpta (13)
Aparyāpta (14)

In the last lines of the *Gommatasāra Jīva kānda*, it is said that the liberated soul remains pure and free

Pure and perfect souls live in eternal bliss But they do not lose their identity as the *Vedāntin* would emphasize In the eighth *khanda* of the *Chāndogyopanisad*, it is said that when a man departs hence his speech is merged in mind, his mind in breath, his breath in fire, which in the highest being is *sat* Now, that which is the subtle essence has its *self* It is the *self*, ' and thou, Oh Śvetaketu, art that " In the eleventh *khanda* also, we read that when the body withers and dies and the living *self* leaves it, the living *self* dies not [39] Jacobi says that here we come nearer to the concept of the soul It differs from the Jaina concept in that the soul here does not possess a permanent personality, for in *mukti* the *jīva* is merged in *Brahman* and its individuality is lost For the Jaina, McTaggart's analogy of the 'college of selves' would appear to be apter, although what type of spiritual unity there is in *moksa*, Jainism cannot say McTaggart speaks of the unity of the asbolute as that of a society All the selves are perfect, and "if an opponent should remind me", he writes, of the notorious imperfections of all the lives of all of us, I should point out that every *self* is in reality eternal and that its true qualities are only seen in so far as it is considered as eternal ' [40] *Sub specie eternitatis* it is progressing towards perfection as yet unattained The never-ceasing struggle of the soul is an important tenet in Jainism The universe is not, then, an amusing pantomime of infallible marionettes, but a fight for perfection, in which something is eternally gained for the universe by the success ' The Jaina outlook is melioristic

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39 *Na jivo mriyate*

40 Pringle-Pattison (A Seth) *Idea of God*, 2nd Ed Ch XX, p 391

CHAPTER II

MIND IN JAINISM

Morris in his *Six Theories of Mind*, has stated that there have been three stages in the history of speculation concerning mind (i) a period in which mind and nature are vaguely conceived and differentiated, (ii) a period in which they are regarded as different and sharply opposed, and (iii) a period in which the effort is to restore, at a more complex level, the relation between mind and nature which was vaguely conceived in the beginning Early man made no distinction between mind and nature, between his personal experience and the world outside The lispings of the early philosophers in the West faced the same problem, and they could not free themselves from the difficulties of primitive man There was no opposition between mind and the world It was not regarded as a private isolated substance but as a principle of motion and the order of the world It lacked psychological orientation Anaximenes held that air was the life of the world just as breath was the life of the body Heraclitus suggested that reason guides all things Empedocles spoke of God as only mind, sacred and ineffable mind Anaxagoras said that mind is infinite and self-ruled and is mixed with nothing "Over all mind is the ruler', he said, "and over the whole revolving universe mind held sway so that it caused it to revolve in the beginning "[1] These were the gropings of the early philosophers regarding the principle of the universe, and there was a marked absence of any clear distinction between mind and the world of sense Aristotle writes that, on the one hand, the atomists and the sophists identified sense and reason, and, on the other, Parmenides and Democritus made a distinction between thought and sense[2] The early Greek philosophers struggled with the problem of mind and its relation to the physical world

The problem of mind eludes the grasp of philosophers and psychologists, because it can be analyzed into both metaphysical and psychological problems Metaphysically, it refers to mind as the principle of the universe standing in relation to the phenomenal world This is the cosmic principle which is emphasized by the idealists as the primary principle Psychologically, it is the individual mind, the individual's system of psychic states in relation to the world of sense We are, here, more concerned with the psychological significance of the mind, although the metaphysical shades do influence the psychological analysis The early philosophers could not make a distinction between the two aspects of the

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1 Morris (C W) *Six Theories of Mind*, p 4

2 Aristotle *De Anima*, Ch 2

problem This is evident in the different stages of the speculation concerning mind

The Indian thinkers were also groping to grasp the intangible, the ineffable, and the immaterial But they could not free themselves easily from the material The distinction between mind and matter, the mental and the physical, was vague and unclear In the pre-*Upanisadic* thought, the principle of *Rta* became the principle of order in the universe It is the underlying dynamic force at the basis of the universe It compels every animate and inanimate being to follow the law of its existence "Even the Gods cannot transgress it ' We see in the conception of *Rta* the development from the physical to the devine[3] "It is by the force of *Rta* that human brains function " Man knows by the driving force of the same immanent power which makes fire to burn and river to flow "[4] The interpretation of the famous *Rgvedic* hymn of creation "*nāsadāsīnno sadāsīttadānīm*" and again of "*Kāmastadagre samavartatādhi manaso retah prathamam yadāsīt Sato bandhumasati niravindahrdi pratīsyā kavayo manīsā*"[5] gives a description that for the first time there arose *kāma* which had the primaeval germ of *manas* within it Similarly the word *kratu* is shown to be the antecedent of the word *manas* or *prajñā* In *Śat Brā* 4 1 4 1 there is a statement that when a man wishes, may I do that, may I have that, ' that is *Kratu*, when he attains it, that is *Daksa* The same term later changed its meaning to *manas* and *prajñā*[6]

In the *Upanisads* the importance of the mind and its function was gradually realized, although it was still in the pre-analytic stage In the *Upanisads* man was spoken of as *prānamaya* and *manomaya* We also hear the utterance of the sages, 'I was elsewhere in my mind—I could not see I could not hear '[7] In the *Chāndogyopanisad 7, 3 1*, it is said that, when a man directs his *manas* to the study of the sacred hymns, he studies them, or when to the accomplishing of work, he accomplishes them Again in the *Brhadāranyakopanisad* 4 1 6, we read that by the *manas* is the man compelled towards his wife and begets from her a son who is like him Thus the *Vedic* and the *Upanisadic* philosophers were trying to find the cosmic principle which is the root of the universe But their thought was still in the pre-analytic stage, or, as Renan calls it, the syncretic stage[8] This is perhaps because of the synthetic approach of the Indian thinkers Mrs Rhys Davids mentions that Bergson had asked what would have happened if the development of thought had

3 Radhakrishnan (S) *Indian Philosophy* Vol I, p 79

4 Saksena (S K) *Nature of Consciousness in Hindu Philosophy*, p 16

5 *Op cit* p 17

6 *Op cit* p 17

7 *Brhadāranyakopanisad* III 1 4

8 Rhys Davids (Mrs) *Birth of Indian Psychology*, (Buddhism) p 4, (1936)

started with psychology Mrs. Davids answers that in India to some extent it did so happen [9]

The analysis of the Jaina theory of mind shows there has been a conflict between the metaphysical and the psychological approaches to the problem It is predominantly a realistic approach The mind and its states are analysed on the empirical level Still, the Jaina ideal is *mokṣa*, freedom of the soul from the impurities of *karma*. The purity and the divinity of the soul are the basic concepts of the Jaina philosphy, and mind has to be linked with the soul and interpreted in metaphysical terms The Jaina approach was also synthetic The evidence of the conflict can be found in the description of the various aspects of the mind

The Jaina theory of the mind, as developed by the Jaina *ācārvas*, is a theory in which mind and nature are regarded as different in kind and as sharply separated and opposed If the classification of the stages in the speculation of the concept as presented by Morris can be used, it can be said to be in the second stage of development, although elements of the first and the third stages are not altogether absent Traces of the primitive speculation were still found The primitive conceptions of the mind lingered in the minds of the philosophers Yet they also tried to overcome the conflict between mind and nature and establish the intimate relation between them An analysis of the Jaina conception of mind will bear testimony to the view presented here

The function of mind, which is an inner organ, is knowing and thinking *Sthānāṅga* describes it as *saṃkalpa vyāpāravati* *Ānuvaṃśika* gives the *citta vijñāna* as equivalent of the *manas* "*Citta manovijñānam iti paryāyaḥ*" *Viśeṣāvaśyakabhāṣya* defines *manas* in terms of mental processes [10] It is taken in the substantive sense *Nyāyakośa* defines *manas* in the sense of the inner organ which controls the mental functions

It is difficult to define mind If at all it is to be defined, it is always in terms of its own processes Even the psychologists of the present day find it difficult to give a definition of mind without reference to the mental processes Older psychologists meant by mind something that expresses its nature, powers and functions in the modes of individual experiences and of bodily activity McDougall also says that we are bound to postulate that "something , and ' I do not think", he writes, "that we can find a better word to denote something than the old fashioned word mind "[11] McDougall defines mind as an organized system of mental and purposive forces Wundt says that mind is a pre-scientific concept It covers the whole field of internal experience [12]

9 Rhys Davids, (Mrs) *Birth of Indian Psychology*, p 11

10 *Viśeṣāvaśyakabhyāṣya 3525 Manaṇam vā mannaye vā anena mano* Also *Abhidhānarājendra* Vol VI *Mana* p 75

11 McDougall (W) *Outline of Psychology*, 12th Ed , p 35

12 Wundt *Physiological Psychology*—Introduction, p 3

The old metaphysical problem whether mind and soul are distinct or identical, faced the early philosophers Aristotle, in his *De Anima*, says that Democritus regarded mind as identical with the soul for the fineness of its particles Anaxagoras is less exact He speaks of mind as the cause of goodness or order, and, therefore, different from the soul Mind, alone of things is simple, unmixed and pure Elsewhere, he identifies it with soul, where he attributes it to all animals great and small, high or low [13] Titus Lucretius Carus says that mind and soul are kept together in close union and make up a single nature It is the head so to speak, and it reigns paramount in the whole body [14] The Jaina thinkers asserted the distinction between soul and mind *Mahāvīra* was asked by Gautama whether mind was different from the soul "Oh Gautama", said Mahāvīra, "mind is not the soul, as speech, like mind, is different from the soul, although non-living substances have no mind "[15]

The Jaina thinkers did not merely postulate the existence of mind without any evidence They found the evidence in the experiences of the world They also give the empirical proof for the operation of the mind The contact of the sense organ with the soul alone does not give cognition in the relevant experiences, because there is the absence of *manas* Something else is necessary for the cognition, and that is the mind Again, the mind has the functional connotation which speaks for its nature "Just as speech signifies the function of speaking, fire expresses the function of burning and the light shows the light "[16]

Orthodox schools of Hindu philosophy postulate the existence of mind as an internal sense organ On the evidence of cognition the contact of the soul with the sense organ is not sufficient We must posit the existence of a *manas*, some additional condition which brings them together For instance, a man may not hear a sound or see an object when the mind is pre-occupied, when the mind is elsewhere, as we read in the *Upanisads* There is also the positive evidence in the facts of memory and of experiences like pleasure and pain [17] As mind is not tangible, the proof of mind has always to be indirect, and not direct McDougall infers the structure of the mind from its functions He writes that we have to build up our description of the mind by gathering all possible facts of human experience and behaviour, and by inferring

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13 Morris (C W) *Six Theories of Mind*, p 10

14 Rand *Classical Psychologists*, p 98, (1912)

15 *Abhidhānarajendra* Vol VI p 82
Idamuktam bhavati sānvarthakriyāvācakaśabadabhidheyā hi manahprābhitayah tadyathā manute manyate vā manah pradipayatīti pradipah sabdayati bhāsata iti śabdah dahatīti dahanah tapatīti tapanah

16 *Abhidhānarājendra* Vol VI p 82

17 Bhaduri (S) *Nyāya Vaiśesika Conception of Mind* — as appearing in B C Law Vol , II, p 38

from these the nature and structure of mind He thus makes a distinction between the facts of mental activities and the facts of mental structure It is comparable to the structure and the functions of the mechanical toy, and one who wishes to ascertain the nature of the machinery within it, can only watch its movements under various conditions [18] There is nothing scientifically wrong in such a procedure Even the psychologists of our time have adopted a similar procedure The structure of the molecules, for instance, was inferred on the basis of the observation of their behaviour [19] Recent comparative psychologists have also tried to find evidence of mind in animal behaviour Miss Washburn says that there is no objective proof for the presence of mind [20] Evidence from behaviour has been suggested Variability of behaviour is said to be a criterion But this criterion was not found to be satisfactory, because from our own experience we see that very often variability is due to the physiological condition There is nothing in the mental process to account for the variability Romanes and other psychologists have suggested that the criterion is based on the variation of behaviour as a result of previous individual experience Miss Washburn writes, ' the fact is that the proof for the existence of mind can be derived from animal learning by experience only if learning is rapid " But this evidence is not very satisfactory Yerkes and Lukas try to find structural evidence for the presence of mind The similarity of the structure can be taken as evidence for the presence of mind Lukas suggested morphological, physiological and teleological crietria for the presence of mind Yerkes mentions six criteria, like the general form of the organs, the nervous system, the neural organization and specialization in the nervous system [21] Mind functions in various ways Descartes said that mind is a substance which thinks Although it is called a thing which thinks, it is an attribute of the soul It is a thing "which doubts, understands, affirms, denies, wills, refuses, which also imagines and feels "[22] *Nyāya Bhāṣya*, in Indian thought, describes the activities of the mind as "remembrance, inference, verbal cognition, doubt, intuition, *pratyakṣa*, dream, imagination, *(ūhā)* as also perception of pleasure and pain and the rest ' They are indicative of the existence of the *manas* [23] The operation of the mind is necessary in every act of perception This is shown by the fact that even when there is the contact of the sense organs with the respective object, there is no simultaneity of perception of all these objects This is due to the fact that there is no such contact

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18 McDougall (W) *Outlines of Psychology*, 12th Ed , p 36
19 Naidu (P S) *Hormic Theory*, p 17
20 Washburn,(Miss) *Animal Mind*, Ch II—Evidence of mind—p 31
21 *ibid*
22 Morris (C W) *Six Theories of Mind*, p 26
23 *Nyāya Bhāṣya*, I I 16

of the *manas* with other objects [24] Mind is characterized by mental processes like doubting, imagining, dreaming and expecting It is also characterized by pleasure and pain and desires These are the distinguishing marks of mind [25] *Nandisūtra* describes mind as that which grasps everything (*sarvārthagrahanam manah*) [26] In *Tattvārthādhigamasūtra*, we are told that cognition of what is stated on authority, like in scriptures is the object of mind, *śrutamanindriyasya* [27] In *Maitri Upanisad*, mind is described in its reflective aspect as source of all mental modifications He sees by mind, by mind alone he hears, and by mind too, he experiences all that we call desire, will and belief, resolution, irresolution All this is but mind itself [28] In modern psychology also, Wundt says that mind will be the subject "to which we attribute all the separate facts of internal experience" Mind, in the popular thought, is not simply a subject in the logical sense, but a substance in real being, and the various activities of the mind are its expressions or *notions* But this involves, he says, some metaphysical presuppositions For him, mind is a logical concept of internal experience [29]

Abhidhānarājendra mentions that the word *manas* has a functional significance, because it describes the functions of the mind like thinking, imagining and expecting [30] And from this functional significance of the mind the structure of the mind is inferred The Jaina thinkers make a distinction between two phases of the mind *dravya manas* and *bhāva manas* (*Manah dvividham dravya manah bhāva manah ca*) In the *Viśesāvaśyakabhāsya*, we get a description of the two phases of the *manas* The material mind, which may be called the mental structure, is composed of infinite, fine and coherent particles of matter meant for the function of mind—*dravyatah dravya manah* It is further described as a collection of fine particles which are meant for exciting thought processes due to the *yoga* arising out of the contact of the *jīva* with the body [31] In *Gommatasāra Jīva-kānda* also there is a description of the material mind as produced in the heart from the coming together of mind molecules like a full blown lotus with eight petals [32]

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24 *Nyāyabhāsya*, I 1 4 as quoted by S Radhakrishnan, in *Indian Philosophy* Vo II p 50

25 *Abhidhānarājendra* Vol VI, p 83

26 *Nandisūtra* p 24

27 *Tattvārthasūtra* Ch II *Sūtra* 21

28 *Maitri Upanisad*, Ch VI, p 30, as quoted by R D Ranade in *Constructive Survey of Upanisadic Philosophy* p 118, (1926)

29 Wundt *Physiological Psychology*, tr by Titchner, Introduction p 3

30 *Abhidhānarajendra* Vol VI p 74

31 *Viśesāvaśyakabhāsya* 3525 A Ma and, *Abhidhānarājendra* Vol VI, p 4 Commentary *Tadyogyairmananayogyairmanovargaņābhyo grhitairanantaih pudglairnirvrtitam tad dravyamano bhanyate*

32 *Gommatasāra Jiva kānda* Verse 443

The material composition of the mind was not uncommon in the philosophies of the East and West alike In the *Brhadāranyakopanisad*, mind was looked upon as material *Upanisadic* philosophers supposed that mind for its formation depends on 'alimentation' It is supposed to be manufactured out of the food that we take (*Annamayam manah hi somya manah*) Food takes three different forms the heaviest becomes excrement, the medium quality becomes flesh, and the subtlest part becomes mind, just as the churning of curds gives the subtlest which is butter[33] Later, in the days of *Bhagavadgītā*, the three temparaments *rajas*, *tamas* and *sattva* were recognized, and they were due to different kinds of food This may be compared to the modern theory of temperament as depending on the secretion of glands Therefore, pure food was desirable The quality of food influenced the quality of mind In *Chāndogyopanisad*, it is said that when food is pure, the whole nature becomes pure, memory becomes firm [34] In the *Nyāya* theory it is contended that mind, being an additional sense organ, need not be structurally different from the other sense organs An atom of earth, water or air can, without any logical inconsistency, be credited with the function of mind Similarly, it cannot be distinguished from *ākāśa*[35] There has been a controversy between the *Naiyāyikas* and the *Mīmāmsakas* about the material size of the mind The *Naiyāyikas* believed that mind is atomic in size Otherwise there would be simulatneous cognition of different things The impossibility of cognition was referred to in the *Brhadāranyakopanisad*, "my mind was elsewhere, I could not see " as quoted earlier But the *Mīmāmsakas* hold that mind is unlimited in size The *Vedāntins* believe that mind is a created substance devoid of any parts and it must be of medium size, (*madhyama parimāna*) According to *Sāmkhya Yoga*, in the process of evolution, owing to disturbance in the balance of the *gunas*, *buddhi*, *ahamkāra* and *manas* are gradually evolved They are *jada* in nature Hiriyanna says that, according to this view, the functions that we describe as mental are really mechanical processes of the physical organism, which assume a psychical character only when illuminated by the spirit[36] In the *Vedānta* also the *antahkarana* is looked upon as *bhautika*, composed of five elements wherein *tejas* predominates Such a description of the non-sentient (*jada*) aspect of mind is endorsed by the modern theories of mind based on the study of the evolution of behaviour from the primordial amoeba 'The fundamental feature of behaviour is irritability and conductivity, with the specialization of structures sensitive to the different forms of energy in nature ' There arises the nervous system which not only

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33 *Chāndogyopanisad* Vol V, and VI 1-2

34 *Op cit* Vol VII 26 2

35 Bhaduri (S) *Nyāya Vaiśesika Conception of Mind*, as appearing in *B C Law Volume*

36 Hiriyanna *Outlines of Indian Philosophy*, p 285

conducts the impulses but also integrates them Thus, behaviour arises on the basis of "structural modifications which are based on the various types of energy tranformation "[37]

In Western thought also there were philosophers who conceived of mind as material Lucretius Carus has said that the nature of mind and also of the soul is bodily "We perceive that our mind in our body suffers together with the body and feels in unison with it " Mind is exceedingly fine and is formed of exceedingly minute bodies—also exceedingly round, because, after death, life and mind vanish and weight does not change, just as the flavour of wine vanishes without affecting the quality of wine [38]

The Jaina philosophers maintained that the *bhāva manas* is the result of the activities of the *dravya manas* [39] It is expressed in mental processes like thinking, and the *bhāva manas* is also described as *jīva* It is the thinking *self*

Such a description of mind as *dravya manas* and *bhāva manas*, the structural and the psychical aspect, can be compared to the description of mind given by some modern philosophers C D Broad, in his *Mind and its Place in Nature* presents a similar view It is a modification of the instrumental theory according to which mind is a substance that is existentially independent of the body For Broad, mind is composed of two factors neither of which is and for itself has the property of mind, but which when combined exhibits mental properties The factors are the bodily and the psychic factors It is comparable to a chemical compound like NaCl and H_2O in which the individual components lose their individual identity when combined Therefore, 'mentality is likewise an emergent property composed of living body possessed of (i) the nervous system and something else and (ii) the psychic factor, which possesses some feeling like mental '[40] The bodily factor is described as "the living brain and the nervous system ' About the psychic factor, Broad seems to be vague [41] Neither mental characteristics nor mental events seem to belong to it It is likely to be sentience only However, the psychic factor must be capable of persisting for a period at least after the death of the body, and it must be capable, when separated from the body, of carrying 'traces' of experience which happen to the mind of which it was formerly a constituent In other words, it must comprise the 'mnemic mass' Broad's view comes nearer to the

37 Kuppuswamy (S) *Nature of Mind in Indian Psychology*, as appearing in *Hiriyanna Commemoration Volume*

38 Rand *Classical Psychologists* p 99 (1912)

39 *Viśeṣāvaśyakabhāṣya*, 3525

40 Broad (C D) *Mind and its Place in Nature* Ch XIII and XIV Section E

41 Also *Proceedings of the Aristotelian Society*, 1926, Symposium *Is mind a compound substance?* Views of Dr Hikks quoted.

Buddhist *vinnāna* rather to the Jaina view of *bhāva manas* Of all the psychic factors in the Buddhist view, *vinnāna* has a more permanent nature In the *Dīgha Nikāya* it is mentioned that after death the body is dissolved, mind ceases, but *vinnāna*, the coefficient of the desire to enjoy, clings to produce its effects in some other embryo waking elsewhere [42] With this difference of the psychic factor, the Jaina distinction between the *dravya manas* and the *bhāva manas* corresponds with Broad's theory of the composition of mind In speaking of the mental structure, McDougall has likened it to the structure of a machine However, McDougall also warns us that it should not be taken in the sense of a material structure or arrangement of parts He likens it more to the composition of a poem or of music "The structure of the mind is a conceptual system that we have to build up by inference from the data of the two orders, facts of behavior and the facts of introspection "[43] The same can be said of the composition of the *manas*

The Jaina philosophers, however, were aware of both the elements in the mental life of animals, although they were groping to find the relation between the two aspects of the mind The analysis of the psychic factor and the idea of *prāna* as 'bodily power' has led some philosophers like Zimmer to believe that the Jaina categories represent a comparatively primitive archaic analysis and description of human nature, many of the details of which underlie and remain incorporated in the later classic Indian view [44] Zimmer is suggesting that the analysis of the psyche that prevailed in the classic period in the synthesis of the six systems was originally not a Brahmin contribution, but non-Aryan, having come through *Sāmkhya Yoga* Its categories are pre-figured in the Jaina view [45] Although the roots of the Jaina view may be primitive, the conception as developed by the Jainas presents a view of the composition of the mind which is comparable to the modern theories as already referred to However, the *dravya manas* and the *bhāva manas* are not two distinct parts, but two aspects distinguishable only by analysis They treated *manas* as one activity with different aspects The Jainas have refuted the Buddhist theory of mind as a collection of *khandas* The Buddhist conception of mind is well described in the *Samyukta Nikāya*, Vol II p 194, 'that which is called intelligence arises as a thing and ceases as another" It is a series of flash points, cinema films, thaumatrope figures welded into an apparent phenomenal unit [46] The Jainas say that the Buddhist theory goes against belief in the other

42 Rhys Davids, (Mrs) *Buddhist Psychology*, Ch Mind p 21

43 McDougall (W) *Outline of Psychology*, 12th Ed , p 42

44 Zimmer *Philosophies of India*, Part III, Ch I, p 228 (Ed Joseph Campbell)

45 *Ibid* p 228 Foot note by the editor

46 Rhys Davids, (Mrs) *Buddhist Psychology*, 2nd Ed p 14.

world. Mind for the Jainas is a whole and not a collection, nor even a compound of *dravya* and *bhāva manas* Stout says that the unity of the individual mind is the unity of the complex whole which is indivisible inasmuch as its partial ingredients have not an independent existence of their own The unity of such a mind is beyond comparison [47]

Each *jīva* has its own mind, although the general nature of mind is one *"manana laksanatvena sayvamanasāmekatvāt"*, because the essential nature of mind is the expression of the mental states In the *Sthānānga* we read, *"ege jivānam mane"* [48] In this way and according to the situation, the Gods, men, and *asuras* have each his own mind In the *Tattvārthasūtra*, the classification of the souls, five-sensed organisms with minds, is mentioned, *sañjñinah samanaskah* [49] In the five-sensed organisms only some possess minds Comparative psychologists like Kohler and Alverdes have shown that mind in the developed form is possible in the case of higher animals having insight *Naivāyikas* also believe that each organism possesses a mind and sensitive organs in order that it may be in a position to cognize the objects and to experience pleasure and pain in accordance with past *karma* Each *self* has one mind, because a single mind of atomic magnitude cannot be shared by all This mind in each *self* can function only inside the organism with which the *self* is connected [50] If there were one common mind for all, there would be simultaneity of cognition A similar argument was presented by the Jaina thinkers in favour of the *jīva* being *bhāvamanarūpa* If the *jīva* were *sarvagata*, there would be cognition of everything by everyone [51] Their arguments were more metaphysical and epistemological than psychological But modern psychology has tried to analyse the same problem from the psychological point of view McDougall writes, "It seems probable that mind has the same nature wherever and whenever it exists or manifests itself, whether in animals, men or superhuman beings, whether in the new-born infant, the fool or the wise man On the other hand, the structure of the mind seems to be peculiar to each individual", not only is it different in the various species of animals (if they have minds) and in man, but the structure of the mind of one man is different from that of every other man, and, in any one man at each stage of his career or life-history, it is not quite the same as at any other stage [52]

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47 *Monist* Vol XXXVI, 1936, I, 51

48 *Abhidhānarājendra* Vol VI p 82 and *Sthananga* I 6, *ege devāsura manussānam tamsi tamsi samayamsi*

49 *Tattvārthasūtra*, Ch II, Sutra 11

50 Bhaduri (S) *Nyāya Vaiśesika Conception of Mind*, as appearing in *B C Law Volume*

51 *Abhidhānarajendra*, VI p 75 *Sarvagrahana prasangatah api tat asangatam*

52 McDougall (W) *Outline of Psychology*, 12th Ed, pp 35—36

The ancient Indian philosophers were faced with problems concerning the instrumental nature of the mind. It was generally believed that, like other sense organs, mind was also a sense organ, and the instrument of the soul. In the *Upanisads* we find references to the mind as one of the organs along with the other sense and motor organs, (*jñānendriyas* and *karmendriyas*)[53] *Praśna Upanisad* mentions *manas* as a central organ. Reference to the *manas* as the driver of the ten organs in the *Maitri Upanisad* may also be noted. Orthodox Hindu philosophy accepts mind as the internal organ. There were some philosophers who made *buddhi*, *ahamkāra*, and *manas* together to constitute the internal organ *antahkarana*. But Jayanta believes that mind is an internal organ. Similarly, Vidyānandi maintains that *buddhi* and *ahamkāra* cannot be regarded as sense organs. The *Nyāya Vaiśesikā* philosophers regarded mind as the internal organ. But Gautama did not include it in the list of the sense organs, Kanāda is also silent. Vātsyāyana includes *manas* under the senses. He calls it the inner sense by which we apprehend the inner states of feelings, desires and cognitions. The *self* perceives the inner states by the instrument of the *manas*. Vātsyāyana believes that mind is as good a sense organ as the eye and the like, though there are certain differences. But the Jainas believed that the mind is a *no-indriya* in the sense that it is different from the five sense organs. Its sense contents and functions are not entirely identical with those of *indriyas*. The prefix *No* here does not mean *not*, but is at times rendered as *īsad*. It is a quasi-sense organ. Still they accept the instrumental function of the mind. In the *Gommatasāra Jīvakānda*, we get a description of mind as the *no-indriya*. It is through the mind that mental knowledge and mental activity arise. But in the case of the mind there is no external manifestation as in the case of the other sense organs. The function of mind is assimilative.[54] *Pramānamīmāmsā* describes mind as the thing which grasps everything. In the *vrtti* of the same it is said, "*manonindriyamiti no indriyamiti ca ucyate*."[55] In the *Tattvārthasutra*, the function of mind, which is *anindriya*, is described as the *śruta* cognition. The second function is the *mati* and its modifications.[56] It is called the organ of apprehension of all objects because all sense experiences are apprehended by the mind. The Jainas accepted the instrumental nature *(karanatva)* of the mind. But it is said that the *karana* is of two types—*bāhya karana* and *antahkarana*, and even the *dravyamanas* is described as the *antahkarana*,

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53 Deussen *Philosophy of the Upanisad*, 58, *Maitri Upanisad*, 2—6

54 *Gommatasāra* 444 *No indiyatti sanna tassa have sesaindiyāṇam va vattattābhāvādo*

55 *Pramānamīmāmsā* 24 and *Vrtti*

56 *Tattvārthasūtra* II 21 and *Pramāṇamīmamsā vrtti—Śrutamatihivisayina visayasya nirdeśah*

the internal organ Being the internal organ, it is different from the other sense organs[57]

However, such a description of mind need not be interpreted in the sense that, according to the Jaina view, mind is not a sense organ, in fact, it is more than a sense organ Its function is not specific like that of the other sense organs It is *sarvārthagrahanam*, as it is stated in the *Pramānamīmāmsā*

Another problem that the Jaina thinkers faced along with other Indian philosophers was the *prāpyakāritva* of the mind This problem is peculiar to Indian philosophers It refers to the capacity of the sense organ to come in actual contact with the object of experience According to the *Nyāya* philosophers mind is *prāpyakāri*, because cognition is possible when the mind comes in contact with the object through the sense organs The speed of the *manas* in contacting the object is greater than the speed of any other sense organ But the Jainas believe that the *manas* is *aprāpyakāri* It does not directly come in contact with the objects They strongly object to those who argue that it is *prāpyakāri* If, they say, the mind were *prāpyakāri*, then the mind would go out of its place and meet the objects, like the idol of *Jina* on the *Mount Meru*, both during the waking and the sleeping state But this is not so, otherwise there would be confusion of experiences While thinking of fire, we should experience burning When we think of poison, we should experience poisoning Similarly, when we think of sandalwood, we should experience coolness[58] Even the *dravya manas*, although it is made of fine particles of the matter, cannot get cognition, because it is unconscious (*acetana*) Moreover, it is an internal organ unlike the other sense organs Those who believe that the mind is *prāpyakāri* may give dream experience as evidence the mind goes out of its place to the *Jinālaya* on the *Mount Meru* in the dream But such experiences are also false because they do not correspond to the facts of experience They are like the illusion of a moving circle when a burning stick is moved fast (*ālaycakrabhrama*) After waking up, we find that our experience in the dream was false The argument for the *prāpyakāritva* of the mind on the basis of undifferentiated unanalyzed cognition is also not acceptable[58] This problem has a great psychological significance, although it is found even in primitive times It is intimately connected with the problem of the process of perception

Ancient philosophers could not free themselves from the animistic ideas in spite of the fact that they had advanced in the direction of conceiving the immaterial as distinct from the material The Jaina

57 *Abhidhānarājendra*, Vol VI *Manas* p 76 *Karanattanao kintu karanam dvidhā bhavati-śarīragatam antahkaranam tadbahirbhutam bāhyakaranam ca tatredam dravya manontahkaranamevātanah*

58 *Abhidhānarajendra* Vol VI *Manas* pp 76 83 Commentaries on the *gathas* 213 238

view expresses the naturalistic approach to the analysis of mental states Still, the metaphysical approach was not absent The Jainas were trying to see the problem from a more analytic and empirical point of view They centered their discussions on the various facts of experience, as in the waking and the dream state, in order to find evidence for the *aprāpyakārı* nature of the mind

One more problem remains, and that is the problem of the relation between body and mind This has been a perennial problem for philosophers and psychologists of the East and the West The problem has a metaphysical and a psychological side There have been philosophers who have made attempts to solve this problem Whether it refers to individual minds and bodies, or to the general relation of the finite mind with matter, there are various possible solutions to the problem Materialists say that only the body is real, and the mind or the mental is only the product and dependent upon it The idealists lay emphasis on the primacy of the mind The material is unreal, or it is manifestation of the mental There are other solutions, as of those who say that both are unreal, or two aspects of some higher reality The realists, on the other hand, emphasize the reality of both matter and mind Similarly, there are many divergences, specially when referring to the relation between the finite mind and the finite body The relation between the finite body and the finite mind may be (a) a complete dependence, as when mind is regarded as the secretion of the brain or a sort of epiphenomenon, a product, a process and similarly by-product of physical processes, (b) that of parallelism, the two series, mental and bodily, corresponding step by step, element for element to each other, (c) that of reciprocity or interaction, the mental processes being the condition of the bodily, and the bodily of the mental The Jaina philosophers discussed the metaphysical aspect of the problem They were, at the same time, not unaware of the psychological side of the question Still, the distinction between the metaphysical and the psychological was not clearly drawn Mahāvīra points out to the Ganadhara Vāyubhūti that it is not correct to maintain that consciousness is produced by the collection of the *bhūtas*, material elements like earth and water, as intoxication is produced by the mixture of the *ghātakı* flower and jaggery, although it is not found in their constituents separately On the contrary, *cetanā* is the quality of the soul It is different from the bodily aspect In this we find the refutation of the *lokāyata* view[59] Similar arguments are found in *Sūtrakrtānga*[60] In *Pañcāstıkāyasāra*, Kundakundācarya discusses the problem from the side of the effect of *karma* on the *jīva* On account of the rise, annihilation

59 *Ganadharavāda*, Part 3, Discussion with Ganadhara Vāyubhutı

60 *Sūtrakrtānga* Gatha 8, with commentary

and suppression of *karma*, *jīva* has five *bhāvas*[61] The five physical characteristics of *karma* like *udaya*, *kṣaya etc*, determine the corresponding psychic characteristics called *bhāvas* The last *pariṇāmic bhāva* is not causally connected with *saṃsāra* or *mokṣa* It is a *niṣkriya bhāva* Being affected by the changes in the *karmic* material, *jīva* experiences certain emotional states But whatever emotional states appear in the consciousness are due to the causal agency of *jīva* The extrinsic cause is the physical matter, and the proximate cause is the *jīva* *Karma* is of two types, *dravya karma* and *bhāva karma* Peculiar combinations of *paramāṇu* (atoms), form the material *karma* A change in the material *karma* may bring about a similar change in the psychic states This conscious change has a predominantly affective tone This is *bhāva karma* Thus it is really parallelistic There are two distinct causal agencies, as *nimitta kartā* or efficient cause and *upādāna kartā* or substantial cause *Jīva* is the substantial cause of psychic changes Its action is immediate *Bhāva* is psychic change, and it can be brought about by a psychic change only *Kārmic* matter is the substantial cause of the physical changes, these are the two series which correspond to each other *Karmic* matter brings about its own changes *Jīva*, through its own impure ways of thought that are conditioned by *karmic* matter, brings about its own thought changes These two processes form independent series This seems to suggest a psycho-physical parallelism But the parallelism is not merely the temporal correspondence of the two series It is transcended by the doctrine of the *nimitta kartā* As in the Cartesian view, their thinking and unthinking are distinct, yet the two are related by the peculiar concept of causal relation The unthinking may be the *nimitta kartā* of the other, and the converse also may be true However, the two causal changes are independent The Sāṃkhya thinkers raised objections against such a view If the *karmic* matter affects its own change and if *jīva* brings about his own changes, why should he enjoy the fruits of *karma* for which he is not responsible, and why should the two independent series affect each other? But Kundakundācārya answers that the world space is filled with material bodies, some imperceptible and some perceptible These constitute the *karma* These are the *karma varganās* They are physical molecules of a particular constitution which give them the tendency to be attracted by the *jīva*[62] This is also known as the *karma prayoga pudgala* *Jīvas* and *karma varganās* coexist But by the mere fact of contiguity, *jīva* and *karmic* matter are brought together as the casket filled with black collyrium powder becomes black by mere contact[63] The relation of

61 *Pañcāstikāyasāra* 69, 70—77 Editor's commentary

62 *Ibid* 70- 77 Editor's note p 71—78

63 *ibid* *Anjanacūrṇa samudgaka naya*, p 71

this *bhāvamanarūpa jīva* to the body is described on the analogy of the mixture of milk and water *kṣīranīravat*[64] Similarly, just as the lotus-hued ruby placed in a cup of milk imparts its lustre to the milk, the *jīva* residing in the body imparts its lustre or intelligence to the body

Radhakrishnan says that the Jainas accept the dualism of body and mind They accept the view of parallelism with all its limitations And to the question why *jīva* should suffer the fruits of *karma* for which it is not responsible, 'a sort of pre-established harmony' is suggested[65] But the Jainas do not speak merely in terms of pre-established harmony Their theory transcends parallelism and postulates a more intimate connection between body and mind

Some modern psychologists like Jodl would limit the extent of parallelism Mind is correlated with body, but only under certain conditions, where there is a certain complexity of organic structure, a central nervous system Some others like Spencer, Hoffding and Paulson make the parallelism universal[66] The Jainas have given a modified parallelism with reference to psychic activity as determined by the *karmic* matter

The analysis of the Jaina concept of mind so far shows that the Jainas were clearly aware of the distinction between mind and body Metaphysically, they gave the dichotomous division as *jīva* and *ajīva* They presented a sort of psycho-physical parallelism concerning individual minds and bodies Yet, they were not unaware of the interaction between the mental and the bodily The empirical approach showed them that there is such mutual influence The idea of the *nimitta-kartā* was introduced for the solution of the problem The notion of the structure of the mind (*dravya-manas*), and the functional aspect of mind (*bhāva-manas*), shows that they were aware of the significance of interaction A clear and consistent formulation would have been possible if the metaphysical and the psychological analyses were clearly distinguished The Jaina theory was an attempt at the integration of the metaphysical dichotomy of *jīva* and *ajīva* and the establishment of the interaction of the individual mind and body

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64 *Abhidānarājendra* Vol VI, p 75
65 Radhakrishnan (S) *Indian Philosophy* Vol I, p 310
66 McDougall (W) *Body and Mind*, Chp I, p 111, (1911)

CHAPTER III

THE JAINA THEORY OF *UPAYOGA*

The Jaina philosophers talked of *Upayoga* as the fundamental characteristic of life *Upayoga* is the defining characteristic of the soul [1] *Upayoga* is that by which a function is served *Upayujyate anena iti upayogah* It is also described as that by which a subject is grasped [2] In the *Gommatasāra Jīvakānda*, *Upayoga* is described as the drive which leads to the apprehension of objects [3] It is the source of the psychical aspect of experience All the three aspects—cognitive, conative and affective, spring from it It gives rise to the experience of objects, and the experience expresses itself in forms of *jñāna* and *darśana* *Upayoga* is of two types *anākāra*, formless, and *sākāra*, possessed of form *Anākāra upayoga* is formless, indeterminate cognition *Sākāra upayoga* is determinate cognition, a defined form of experience It would not be out of place to point out that *upayoga* is not the resultant of consciousness as it is sometimes maintained This was one of the earlier attempts to translate *upayoga* Nor is it a sort of inclination arising from consciousness It is the conative drive which gives rise to experience It is, in fact, the source of all experience The Jaina philosophers were aware of the driving force of experience, the force by which experience is possible This may be likened to the 'horme' of the modern psychologists

The biological studies of the lower animals from the amoeba onwards show that all animals are centres of energy in constant dynamical relation with the world, yet confronting it in their own characteristic way A name was needed to express this fundamental property of life, the drive or a felt tendency towards a particular end Some psychologists called it 'conation' or the conative process But this drive may not always be conscious

There is the presence of an internal drive in such processes "To this drive or urge, whether it occurs in the conscious life of men and the higher animals we propose to give a single name—horme" [4] This activity of the mind is a fundamental property of life It has various

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1 *Tattvārthādhigamasūtra* II 9, and *Bhāṣya* on the same
Dravyasamgraha *Jīvo uvayogamayo* *Pañcāstikāyasāra*, 27

2 *Prajñā*, 27 *Viśeṣāvaśyakabhāṣya*

3 *Gommaṭasāra* *Jīvakānda* Ch XX, Verse 672
vatthunimittam bhāvo jādo jīvassa jo du uvajogo

4 Nunn (Percy) *Education Its Data and First Principles* pp 28 29, 3rd Ed

other names, like 'the will to live, *élan vital*, the life urge and the libido' Horme under one form or another has been the fundamental postulate of Lamarck, Butler, Bergson and Bernard Shaw McDougall took great pains to present the hormic theory of psychology as against the mechanistic interpretation of life and mind

The hormic force determines experience and behaviour We get conscious experience because of this drive The conscious experience takes the form of perception and understanding Horme operates even in the unconscious behaviour of lower animals In the plants and animals we see it operate in the preservation of organic balance In our own physical and mental life we find examples of horme below the conscious level We circulate our blood, we breathe and we digest our food, and all these are the expressions of the hormic energy It operates at all levels both in the individual and the racial sense [5] But the horme expressed and presented by the Jaina philosophers could not be developed and analysed in terms of the modern psychology, because their analysis of *upayoga* was purely an epistemological problem tempered with metaphysical speculation They were aware of the fact that there is a purposive force which actuates and determines experience This is clear from the distinction between *jñāna* and *darśana* as two forms of *upayoga*

Jñāna and Darśana

As already pointed out, the Jainas make a distinction between *anākāra* and *sākāra upayoga* They say that *anākāra upayoga* (indeterminate cognition) is *darśana* and *sākāra upayoga* is *jñāna* *Sākāra upayoga* is specific cognition[6] and cognizes the specific qualities of the objects The *anākāra upayoga* is indeterminate and undistinguished It is general cognition It may be called the knowledge of acquaintance, in the language of William James

The distinction between the indeterminate and the defined cognition, (the *sākāra* and *anākāra upayoga*), has been a great problem in the Jaina theory of cognition It is an ancient problem which has its roots in the early distinction between the two types of *karma*, *jñānāvaranīya* and *darśanāvaranīya* The *Āgamas* make a clear distinction between *jñāna* and *darśana* Kundakundācārya makes a distinction between the two, both from the empirical and the transcendental point of view He says that the *ātman*, its knowledge (*jñāna*), and intuition (*darśana*)— all these are identical, and they reveal the *self* as well as the *non-self* [7] However,

5 Ross (James S) *Groundwork of Educational Psychology*, p 47

6 *Prajñāpanāsūtra*, *pada* 29 30

Viśesāvaśyakabhāsya *ākāra viśesa* *Abhidhānarājendra* Vol II p 760

7 *Niyamasāra* 170

Tatia *Studies in Jaina Philosophy* p 73

he does not make a clear distinction between the *sākāra upayoga* and the *anākāra upayoga* on that basis Ācārya Vīrasena, in his commentary called *Dhavalā* on *Satkhandāgama* of Puspadanta, says, 'What comprehends an external object of the nature of the universal-cum-particular is *jñāna*, and comprehension of the *self* of the same nature is darśana '[8] They are both valid cognitions, and it is also maintained that *jñāna* comprehends the reality in its complex and universal-cum-particular nature It is not correct to say that *jñāna* comprehends the particular and *darśana* apprehends the general only Vīrasena says that the only difference between them is that *jñāna* knows the external reality and *darśana* intuits the internal *self* *Darśana* is *antarmukha* introvert, while *jñāna* is *bahirmukha*, extrovert[9] Brahmadeva in his *Vrtti* on *Dravyasamgraha* of Nemicandra *gāthā* 43 says that *darśana* intuits the universal characteristic[10] But in his commentary on *gāthā* 44, he distinguishes two views, one from the point of view of logic and the other from the point of view of the Scriptures Logic will give us the conception of *darśana* as intuition of the universal as for instance *sattā*[11] According to the Scriptures, the awareness of one's *self* which shows the striving for knowledge, and the subsequent determinate knowledge is *jñāna* The selfsame consciousness is called *darśana* as well as *jñāna* with reference to the object of cognition It is called *darśana* when it is engaged in intuiting the *self* and *jñāna* when engaged in knowing the *nonself* Other great thinkers, like Pūjyapāda, Samantabhadra, Akalanka and Vidyānandi accept the determinate and the indeterminate nature of *jñāna* and *darśana* respectively *Darśana* need not be taken to be identical with indeterminate cognition (*nirvikalpa pratyaksa*), as it is sometimes maintained It need not be taken as 'pure sensation of the existence of objects[12] If it were to be identified with sensation, it would be a rudimentary stage of cognition, it would be the first stage of cognition In that case, we can accept the highest type of *darśana* like *avadhi* and *kevala* The Jainas accept the possibility of the perfect *darśana*, *kevala darśana* We may call *darśana* intuition, as against *jñāna* which may be called intellective cognition

The temporal relation between *jñāna* and *darśana* is another problem which the Jaina philosophers faced Ācārya Jinabhadra mentions three positions (i) they occur simultaneously, (ii) there are alternate occurrences, and (iii) they are identical This problem arises with reference to the perfect being The Jainas are agreed that in the case of

8 *Sāmānya viśeṣātmaka bāhyārtha grahanam jñānam tadātmaka svarūpa grahnam darśanam iti siddham*

9 Tatia *Studies in Jaina Philosophy* p 73

10 Quoted by Tatia Op cit p 73

11 *Tarkābhiprāyena sattāvalokana darśanam*

12 Mehta (M) *Jaina Psychology*, p 46 (1955)

the imperfect *jīvas* there is no simultaneity of occurrence of *jñāna* and *darśana* An imperfect being in the mundane existence cannot experience *jñāna* and *darśana* at the same time There is no agreement among philosophers Philosophers following the *āgamic* literature maintain that there is simultaneous occurrence of *jñāna* and *darśana* even in the case of the *kevalin*, because *Jñāna* and *darśana* are both conscious experiences, and as such cannot occur at the same moment of experience even in the case of the *kevalin* much less in the case of the beings in the mundane existence, the *samsārins* [13] In the *Viśesāvaśyakabhāsya* we get a similar view Here Jinabhadra says that it is not true to say that when the veil of *karma* is removed the omniscient soul gets the two experiences simultaneously, because both of them are essentially conscious experiences [14] Umāsvāti maintains that in the case of the mundane souls *jñāna* and *darśana* as conscious mental states manifesting themselves in *mati*, *śruta* and *avadhi* occur one after the the other and not simultaneously But in the case of the omniscient, where there is 'pure knowledge' and 'pure intuition', there is simultaneous occurrence of the two experiences [15] Kundakundācārya is also of the same opinion In the case of the *kevalin* the two experiences occur simultaneously even as the light and the heat of the sun [16] Pujyapāda Devanandi gives a similar view Akalanka and Vidyānandi support the simultaneous occurrence of *jñāna* and *darśana* in the *kevalin* If they were to occur successively, his omniscience would only be a contingent occurrence [17] There are some philosophers who do not make any difference between *jñāna* and *darśana* at the highest level They advocate the identity between the two Haribhadra mentions that the 'old Ācāryas' held the non-difference of the *jñāna* and *darśana* [18] As pointed out by Tatia, it is difficult to determine who the 'old Ācāryas' referred to were [19] Siddhasena Divākara points out that we can distinguish between *jñāna darśana* up to the point of *manahparyāva-jñāna*, but at the level of the *kevala jñāna* there is no difference between *jñāna* and *darśana* in the case of the omniscient If the omniscient soul knows all in an instant, he should continue to know for ever, otherwise he does not know at all He also says that *darśana* is *jñāna* of external objects untouched by or unamenable to the sense organs But the cognition does not cognize past and future events by means of a *linga* [20] Yasovijaya sums up the discussion on this problem with the remark that philosophers looked at the problem from different points of view Therefore,

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13 *Bhagavatisūtra*, VIII, 8 *Prajñāpanāsūtra*, *pada 30*
14 *Viśesāvaśyakabhāsya 3093 3096*
15 *Tattvārthasūtrabhāsya*, I 31
16 *Niyamasāra*, 159
17 *Astaśati on Āptamimāmsā*, 101
18 *Nandisutra vrtti* p 52
19 Tatia *Studies in Jaina Philosophy* p 79
20 *Sanmatitarakaprakarana*, II, 3.

none of the three positions is untenable[21] Those who maintained simultaneous occurrence looked at it from the empirical point of view. Jinabhadra resorted to the *rjusūtra*, analytic point of view, while Siddhasena looked at it from the *samgrahā*, or synthetic point of view

Apart from the logical and epistemological implications of this problem it has a great psychological significance The experience of the *kevalin* is not possible for us to know However, it is necessary to analyse the experience in its psychological aspect The discussion of the simultaneity and the successive occurrence of *jñāna* and *darśana* in the case of the *kevalin* throws light on the fundamental nature of experience in the *jñāna* and the *darśana* aspect Experience is concrete, it expresses itself in the analytical and synthetic aspect Immediate experience is a factor in the concrete psychosis We also get the analytic experience which is aided by intellective factors *Jñāna* and *darśana* have been very often talked of as knowledge about, and knowledge of acquaintance But knowledge of acquaintance is not a proper phrase for *darśana*, because knowledge of acquaintance is a single form of cognition It is analogous to sensation But *darśana* is not to be identified with the primitive and the original form of cognition It is higher, and yet simple It may be referred to as intuitive experience which apprehends reality directly in a moment of experience For instance, we very often get the solution of a mathematical problem in a flash Parraudin, a Swiss hunter, conceived the idea that the huge blocks of rocks had been transported by glacial action He got this as a sudden flash of insight It was later proved by more plodding scientists There has been a good deal of discussion regarding the knowledge of acquaintance or 'simple apprehension' in modern psychology L T Hobhouse recognizes 'simple apprehension' James talks of the 'knowledge of acquaintance' Hobhouse says that thought relations never constitute a content of immediate experience "The consciousness in which we are directly or immediately aware of the content present to us a state which I venture to call apprehension, is a primitive underived act of knowledge" Prof Stout speaks of immediate experience in similar language Simple apprehension is the term which seems most suitable for the presence of an object to consciousness without indicating any more special relation in which the mind may stand to this object[22] Bertrand Russell also, in spite of the frequent use of the phrase 'knowledge by acquaintance', means by it the same kind of experience as Hobhouse and Prof Stout meant by 'simple apprehension' It is better called 'acquaintance' and not 'knowledge based on acquaintance' We shall say that 'we have acquaintance with anything of which we are directly aware, without intermediacy of any process of inference,'[23] or any knowledge of

21 *Jñānabinduprakarana*, p 33
22 Stout (G F) *Manual of Psychology* 3rd Ed , p 103
23 Russell (B) *Problems of Philosophy*, p 73

truth' However, the term *darśana* cannot be translated in terms of any of these, as acquaintance or simple apprehension, they signify underived knowledge The terms refer to simple, direct and primitive experience Stout says that it gives the bare presence of the object to consciousness If so, *darśana* would quite differ from such a form of simple apprehension *Darśana* has various degrees It admits of perfect experience which is direct and unerring, *kevala darśana* Thus, it would not be appropriate to identify *darśana* with such a simple and primitive form of knowledge as mentioned by Hobhouse, Russell and Stout It is best to call it 'intuitive experience' *Jñāna* is experience which presents the analytic features of objects It is not a state of perception, because perception is a stage of experience It is a stage of *jñāna* as well as *darśana*, we find that *mati-jñāna* and *mati-darśana* are two species of cognition Sensation and perception belong to both forms of cognition, *jñāna* and *darśana*.

In the *Dravyasamgraha*, Nemicandra says that soul in its pure form has the quality of consciousness Brahmadeva, in his commentary writes that from the ultimate point of view, *jīva* is distinguished by its quality of consciousness [24] It is the most direct and nearest reality of which any one who has introspected is most immediately aware

Consciousness has been the most important point of discussion for philosophers, psychologists as well as scientists Attempts have been made to solve the problem from various angles In the *Aitareva Āranyaka*, an effort is made to understand the different stages of the development of consciousness in the universe In the evolution of herbs, trees and all that is animal, the *ātman* is gradually developing In the herbs, only sap is seen, in the animated beings, *citta* is seen, in man, there is gradual development of *ātman*, for he is now endowed with *prajñā* [25] Similarly, in the *Chāndogyopaniṣad*, Prajāpati describes the progressive identification of *ātman* with body consciousness The physico-psychological method is adopted in the *Taittirīya* [26] Finally, the *atman* as *jñānamaya* and *ānandamaya* is emphasized The Jaina classification of the *jīvas* places the problem of the evolution of consciousness on a scientific basis *Jīvas* have been classified into one, two, three, four and five-sensed, according to the number of the sense organs possessed by them *Jivas* possessing the five senses are divided into those having mind and those without mind It is now realized that the rise of consciousness is late in the evolution of life, from physical evolution to the evolution of life, mind and consciousness However, it is difficult to say whether the ancient philosophers were aware of the evolution of life and consciousness in the sense understood to-day Still, it would not be inappropriate to say that they were aware of the relatively later growth of mind and consciousness

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24 *Dravyasamgraha*, Verse 3 *niccaya nayado du cedanā jassa*
25 *Aitareya Āranyaka* 2 3 2
26 As quoted by Saksena (S K) in *Nature of Consciousness in Hindu Philosophy*, p 24

Cetanā

From the speculative side, *cetanā* as a fundamental quality of the soul is pure consciousness, a kind of flame without smoke This consciousness is eternal, although it gets manifested in the course of the evolutionary process of life in the empirical sense This empirical consciousness arises from the contact of the sense organs with the objects Thus, *cetanā* in its pure form gets embodied with the *ātman* and comes into contact with the empirical life, with the sense organs and objects It manifests itself in the form of *jñāna* and *darśana* *Jñāna* and *darśana* are, therefore, aspects of *cetanā* and *cetanā* is the spring-board from which they arise It is like the flood of light in which objects are illuminated It is the psychic background and the psychic halo of cognition in its two aspects, *jñāna* and *darśana* *Cetanā*, therefore, is the light of consciousness that the soul possesses and through this light the cognition of objects arises

Now, the problem arises—how to relate concepts like *upayoga*, *cetanā*, *jñāna* and *darśana* *Upayoga* has been described as of two types, *jñāna* and *darśana* We have described *upayoga* as horme, the psychic force which is driving life and consciousness with a purpose The purpose may be conscious or unconscious On the conscious side, *upayoga* expresses itself into *jñāna* and *darśana* This expression is possible in the light of *cetanā* If *cetanā* were not there, then *upayoga* would be purely an unconscious drive expressing itself in physiological activities like breathing and blood circulation But we feel that even these activities are sometimes objects of our marginal consciousness In any case, there is the psychic overtone of the physiological activities in our lives This overtone is the light of consciousness, or the light of *cetanā* which is a permanent quality of the soul In the background of this light the psychic drive or *upayoga* expresses itself into cognition, as the light of the lamp enables a man to see the objects This irresistible force of life makes us cognize objects Thus *upayoga* is force It is the fundamental characteristic of the soul *Cetanā* is the background of light It is the fundamental quality of the soul Cognition like *jñāna* and *dārśana* are expressions of the force of *upayoga* in the background light of *cetanā*

The Jaina view of the consciousness as the quality of the soul differs from the *Nyāya-Vaiśeṣika* view *Nyāya-Vaiśeṣika* philosophers believe that consciousness is a mechanical and adventitious quality produced by the contact of the various factors inhering in a substance separate from itself The *ātman* in itself is unconscious, *jaḍa* According to Kanāda, consciousness is produced in a jar through its connection with fire, "*agnighatasamyogaja rohitādigunavat*" Consciousness is conceived to be a product depending upon a suitable concourse of circumstances [27]

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27 Radhakrishnan (S) *Indian Philosophy*, Vol II, Ch II, Sec XXIII

It is only an adventitious quality of the soul In the state of 'deliverance', the soul is devoid of all qualities including consciousness Even the materialist Cārvāka view says that consciousness is the result of a combination of some circumstances and material substances Consciousness, for them, is an epiphenomenon, just a product of nature produced like the intoxicating property of the drug when the material elements are transferred into the physical body It is said to arise in the same way as the red colour is produced by the combination of the betel-leaf, nut and lime, or is the result of mixing white and yellow [28] But *Nyāya Vaiśesikas* do not deny the existence of the soul Modern epiphenomenalism maintains that consciousness is a by-product of the physical and chemical changes going on in the body It is like the residue of a chemical action It is like the whistle of a passing train

During his discussion with the Third Ganadhara, Lord Mahāvīra answers the objections of the latter He says that the presumption of Vāyubhūti seems to be that consciousness is produced from the collection (*samudāya*) of *bhūtas* like earth and water It is like the intoxication found in the combination of the *ghātaki* flowers and jaggery, although it is not traceable in the components separately If the combination (*samudāya*) is destroyed, the consciousness is destroyed But, Mahāvīra points out that consciousness can never exist in the collection if it is absent in the individual constituents as oil cannot come out of particles of sand [29] But *cetanā* is the intrinsic quality of the soul residing in a group of *bhūtas*, (elements) If it were only the quality of all the elements taken together, it might also exist in a dead body Sometimes, consciousness arises without the working of the sense organs, and sometimes, in spite of their working, the object is not apprehended In the *Samavasāra* it is said that the mere presence of the stimuli on the external environment, and even their coming into contact with the sense-organs, may not be effective to produce a psychic state like the consciousness The presence of a psychic element, like selective attention, determines the nature of the state Consciousness, then, has none of the characteristics that belong to any or all of the collection of knowable objects The Jainas do not accept the transcendental consciousness, with no distinction between the ego and non-ego, of the idealists According to Samkara, intelligence and *self* are identical [30] However, the Jainas accept with the idealists that consciousness is unique and is not a product of a concourse of conditions It is eternal The Jaina view comes nearer to the view of consciousness presented by Rāmānuja The *ātman* is eternal, and its natural quality of

28 *Bārhaspatyāni sūtrāni* as mentioned by Saksena (S K) in *Nature of Consciousness in Hindu Philosophy*, p 48

29 *Ganadharavāda* Discussion with Third Ganadhara, *Verse*, 101
Also refer to *Sūtrakrtānga* 23, and its commentary

30 *Ātma caitanyayorabhedah*

consciousness is also eternal It is *cidrūpa* and also *caitanya gunaka*[31] The *self* is filled with consciousness and has also consciousness for its quality[32] Rāmānuja tries to distinguish between the *Nyāya Vaiśeṣika* view and the Śāmkara view Consciousness is not a non-eternal quality of the *self*, for, in that case the selfhood would be unconscious He also wants to avoid the identity of the *self* and consciousness And the Jainas also say that the *self* has consciousness as its essence Since the time of Leibnitz, consciousness is admitted to be an accident of the mental representation and not its necessary, essential attribute His contention that the inner world is richer and more concealed was well known to writers of the *Upanisads* However, that consciousness as an aspect of the mental life is a profound truth, is slowly to be realized

States of Consciousness

The analysis of the states of consciousness has been an important problem for philosophers as well as the psychologists Consciousness has three aspects—the cognitive, the affective and the conative They are modes of consciousness In perceiving, believing or otherwise apprehending that such and such a thing exists and has characteristics, one's attitude is cognitive In the affective attitude one is either pleased or displeased about it But one is also active about it, tries to know more about it, tries to alter it in some respect This attitude is conative[33] But Stout says that though these three modes of consciousness are abstractly and analytically distinct phases in a concrete psychosis, they are not separable They do not occur in isolation from each other Mind is an organic unity and its activities have the closest degree of organic interaction However, in every psychosis one of the aspects may be predominant In the pleasure of pursuit, feeling presupposes conation Sometimes, feeling is dependent on certain conative attitudes involved in the perceptual process Similar reciprocity is found in conation and cognition

Indian thinkers were aware of the distinction of states in consciousness The Jainas recognize three forms of consciousness They make a distinction between consciousness as knowing, as feeling and as experiencing the fruits of *karma* (*karma phala cetanā*), and willing[34] Conation and feeling are closely allied As a rule we have first feeling, next conation and then knowledge[35] McDougall has emphasized that feeling is the core of all instinctitive activity In fact, in all experience there is a core of feeling, while the cognitive and conative aspects are varying factors

31 *Sri Bhāsya*, 1 1 1, p 30 *Evamātmā cidrūpa eva caitanyagunakah*
32 *Rāmānuja Bhāṣya* 2 3 29
33 Stout (G F) *Manual of Psychology* 4th Ed, p 106
34 *Pañcāstikāyasāra*, 38
35 Op cit 29

In the *Aitareya Upaniṣad* there is mention of different modes of experience Sensation, perception and ideation are different modes of intellection It recognizes feeling and volition as the other two forms of experience The seers of *Upaniṣads* give a classification of seven mental functions [36] At the basis is intellection The *Chāndogyopaniṣad* emphasizes the primacy of the will The Buddhists also recognized such a distinction We have perception and conception, feeling and affection, and conation or will In the Buddhist theory, will is the most dominant aspect of conscious experience, the basal element of human life Radhakrishnan in his *Indian Philosophy* suggests that *viññāna, vedanā* and *samskāra* roughly correspond to knowledge, feeling and will [37] Childers in his dictionary brings the concept of conation under *samskāra* Mrs Rhys Davids believes that, although there is no clear distinction between conation in the psychological sense and will in the ethical sense, still in the *Pīthakas* there is consistent discrimination between psychological importance and ethical implication [38] Professor Stout has given up old tripartite classification of mental states and reverts to the ancient bipartite analysis of mind bringing the affective and conative elements together under the name of interest Radhakrishnan says that, if we discard the separation of cognition and make it the theoretical aspect of conation, we get to the Buddhist emphasis on conation as the central fact of mental life

In the *Nyāyavaiśeṣika* theory also there is a description of the manifestation of the three aspects of *self* as knowledge, desire and volition We have to know a thing before we feel the want of it In order to satisfy the want, we act Thus, as Hiriyanna says, feeling mediates between cognition and conation Thus, the modes of consciousness have been the problem of philosophers and psychologists There is a general agreement regarding the division of consciousness into three modes, although different philosophers have emphasized different aspects in the concrete psychosis Buddhists have emphasized conation In the *Upaniṣads* all the aspects have received their due prominence The primacy of the intellect is emphasized in the *Chāndogya* and *Maitrēya Upaniṣads* [39] In the *Chāndogya*, again, we get a description of the primacy of the *will* But this has reference to the cosmic *will* rather than to its psychological aspect The Jainas emphasize the close relation between conation and feeling The *Nyāya* theory describes the function of feeling as a mediating factor between cognition and conation

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36 Ranade (R D) *Constructive Survey of Upaniṣadic Philosophy*—Chapter on Psychology

37 Radhakrishnan (S) *Indian Philosophy* Vol I, p 400

38 Rhys Davids (Mrs) *The Birth of Indian Psychology*, p 6 (1936)

39 *Chāndogyopaniṣad*, VII 5 1, *Maitreya Upaniṣad* VI 39

Self-Consciousness

The term self-consciousness is very ambiguous It may mean consciousness of the *self* as an object given in introspection In this sense, the *self*, the empirical ego, becomes both an aspect of experience and also an object of experience Self-consciousness may mean transcendental and pure self-consciousness It is not an object of knowledge It is the ultimate subject presupposed in acts of knowledge Again, consciousness may mean the ultimate eternal consciousness, which is a metaphysical concept It is also used in the empirical sense as consciousness which is changing[40] Some of the earlier philosophers have not made a clear distinction between the metaphysical and the psychological sense of consciousness In the *Upanisads*, *ātman* is described as the basis and the ultimate presupposition in all knowledge It is the absolute knower, and how can the knower itself be known?[41] It cannot be comprehended by intellect It is the seer and the knower[42] Yet, the *ātman* can be known by higher intuition It is knowable as the *pratyagātmānām*, apprehended by *ādhyātma yoga*[43] The Buddhists recognize the distinction between subject and object within the consciousness They do not believe in the transcendental *self* Their view of consciousness is like the stream of consciousness of William James Yogācāras believe that *self* is a series of cognitions or ideas There is no *self* apart from cognitions They reveal neither the *self* nor the non-*self*

Some *Nyāya* philosophers, especially the *neo-naiyāyikas*, believed that *self* is an object of internal perception, *mānasa pratyakṣa* The *Vaiśeṣikas* also maintain that, although the *self* is not an object of perception but of inference, it can be apprehended by yogic intuition The *Sāṃkhya* philosophers maintain that consciousness is the essence of *self* It is self-luminous *Self* is inferred through its reflection in *buddhi* But Patañjali accepts the supernormal intuition of the *self* through the power of concentration The *self* can know itself through its reflection in its pure *sattva* and also when mixed with *rajas* and *tamas* by supernormal intuition (*pratibhā jñāna*) So, the pure *self* can know the empirical *self*, but the empirical *self* cannot know the pure *self* There is the contradiction involved in the *self* being both subject and object and the reflection theory does not much improve the situation Vācaspati tries to avoid the contradiction by saying that transcendental *self* is the subject, and the empirical *self* the object, of self-apprehension

According to Prabhākara, *self* is necessarily known in every act of cognition Cognition is self-luminous It not only manifests itself, but also supports the *ātman* much as the flame and the wick

40 Saksena (S K) *Nature of Consciousness in Hindu Philosophy* Ch V

41 *Bṛhadāraṇyakopaniṣad*, 2 4 14

42 *Praśnopaniṣad*, 6 5

43 *Kaṭhopaniṣad* 2 12

Neither the *self* nor the object is self-luminous There can be consciousness of an object without the conciousness of the *self* In every act of cognition there is a direct and immediate apprehension of the *self* But the *self* can never be known as object of knowledge It is only to be known as a subject It is revealed by *triputa samvit*

The Jainas hold with Prabhākara that cognition is always apprehended by the *self* Cognition reveals itself, the *self* and its object Every act of cognition cognizes itself, the cognizing subject and the cognized object But the Jaina denies that consciousness alone is self-luminous He regards *self* as non-luminous *Self* is the subject of internal perception When I feel that I am happy I have a distinct and immediate apprehension of the *self* as an object of internal perception, just as pleasure can be perceived though it is without form "Oh Gautama", said Mahāvīra, "the *self* is *pratyakṣa* even to you The soul is cognizable even to you "[44] Again, unlike the view of Prabhākara, the Jainas hold that it is the object of perception and it is manifested by external and internal perception To the question 'how can the subject be an object of perception?', the Jaina replies that whatever is experienced is an object of perception

William James made a distinction between the empirical *self* the *me*, and the transcendental *self*, the *I* The *self* is partly the known and partly the knower, partly object and partly subject The empirical ego is the *self* as known, the pure ego is the knower 'It is that which at any moment is conscious" Whereas the *me* is only one of the things which it is conscious of But this thinker is not a passing state It is something deeper and less mutable [45] Prof Ward holds that the pure *self* is always immanent in experience, in the sense that experience without the experient will be unintelligible It is also transcendental, in the sense that it can never be the object of our experience [46] The Jainas were aware that consciousness of *self* is not possible by ordinary cognition Therefore, they said, it is due to internal perception

Self-consciousness does not belong to the realm of pure consciousness which is foundational and without limitation That is the *cetanā* which is the essential quality of the soul But when we descend to the practical level, the realm of *vyavahāra*, we find the distinction between subject and object in consciousness The question whether the *self* is perceived by direct experience like the internal perception of the Jainas, or by the immediate intuition, (*pratibhā jñāna*) of the Vedāntins, is raised as a consequence of this distinction In all this, the question is answered from the empirical point of view On this basis, we may say that there are two aspects of consciousness (a) pure and transcendental

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44 *Gaṇadharavāda*, Ch I

45 James (William) *Principles of Psychology* Chap X

46 Ward (James) *Psychological Principles*, p 380 (1920)

consciousness, and (b) empirical consciousness *Atman* is pure consciousness. *Jīva* is consciousness limited by the organism *Ātman* is the subject of consciousness It is also the object of internal perception, but only in the sense that it is immanent in consciousness though not clearly cognized as object *Jīva* is both the subject and the object of consciousness, because it is the cognizer as well as the cognized

The Unconscious

Now we come to the idea of the unconscious The idea of the unconscious has become very important in modern psychology and has been popularized by the Freudians In fact, it has developed in its two aspects—the metaphysical and the psychological Plato, in his *Charmides*, states in the wake of a Socratic dictum, that knowledge of the *self* consists in what one knows and what one does not know Psychologically, the idea of the unconscious has developed along with that of the conscious Montague speaks of desires and thoughts as being imperceptible Leibnitz speaks of unconscious mental states Kant mentioned the 'dark' percepts of which we are not aware Hamilton analysed the unconscious into three degrees of latency In recent times, psycho-analysis has given a systematic theory of the unconscious Freud arrived at the theory of the unconscious by his study of hysterical patients and analysis of dreams Mental life for him has two parts, the conscious, which is the organ of perception, and the unconscious [47] The unconscious is ordinarily inaccessible It is that which is not conscious It is the depth which contains all the dynamically repressed wishes, mainly sexual in nature Freud analyses the causation of neurosis and interprets dreams with the help of the unconscious Even normal forgetting is explained on these lines Hartmann's unconscious is a metaphysical principle It is the absolute principle, the force which is operative in the inorganic, the organic and the mental alike It is the unity of idea and will It exists independently of space, time and existence

The Jaina thinkers were aware of the unconscious, although a clear scientific formulation was not possible for them in those times owing to lack of experimental investigations *Nandisūtra* gives a picture of the unconscious in the *mallaka drstānta*, (example of the earthen pot) A man takes an earthen pot from the potter and pours a drop of water into it The water is absorbed Then he goes on pouring drop after drop continuously After some time, when many drops have been absorbed, a stage will come when the water begins to be visible This example gives a clear picture of the vast depth of the unconscious which absorbs

47 Miller (J C) *Unconsciousness* Ch I Also refer to Broad (C D) *Mind and its Place in Nature*, Ch 10

48 *Nandisūtra* 34

all our wishes and ideas, although the example was meant to explain the process of *avagraha* Buddhist psychology recognizes the unconscious life It is called *vidhimutta*, while *vidhicitta* is the waking consciousness The two are divided by a threshold of consciousness, *manodvāra* Similarly, *bhāvānga* subjectively viewed is subconscious existence, though objectively it is sometimes taken to mean *nirvāna* [49] Mrs Rhys Davids says that the consciousness is only an intermittent series of psychic throbs associated with a living organism beating out their coming-to-know through one brief span of life [50] Similarly, the idea of the unconscious is implicit in the conception of the four states of consciousness in the various schools of Indian thought In the *Māndūkvopanisad* we get a description of waking, dreaming, dreamless sleep, and the highest stage, *turīya* In the dreaming and dreamless states of sleep there is the implicit awareness of the *self* [51] All the orthodox systems of Indian thought accept this distinction of the levels of consciousness This implies the presence of the unconscious state of which we are not at the moment aware

In modern psychology, the idea of the unconscious underwent modifications at the hands of Jung Jung used the word unconscious in a wider sense He made a distinction between the personal unconscious and the collective unconscious The personal unconscious contains repressed wishes, forgotten memories and all that is learned unconsciously Deeper than the personal unconscious is the collective or racial unconscious, the common groundwork of humanity out of which each individual develops his personal and unconscious life The collective unconscious is inherited in the structure of the organism including the brain structure which predisposes the individual to think and act as the human race has thought and acted through countless generations The collective unconscious includes the instincts and also the archetypes Archetypes are the primordial ways of thinking submerged in the waking life An archetype becomes an idea when it is made conscious The new discoveries in science and the creative work of scientists arise out of this treasure-house of primordial images [52] There is nothing to prevent us from thinking that certain archetypes exist even in animals They are grounded in the peculiarities of the living organism itself, therefore, they are direct expressions of life whose nature cannot be further explained

The doctrine of *karma* presented by Indian thinkers and systematically worked out by the Jainas may be aptly compared to the collective or racial unconscious of Jung, more specially of the archetypes of the collective unconscious, although the *karma* theory has a metaphysical

49 Radhakrishnan (S) *Indian Philosophy* II Edn , Vol I, p 408 (f note)

50 Rhys Davids (Mrs) *Buddhist Psychology*, p 116 (1936)

51 *Māndūkyopanisad*, 2 7

52 Jung (C G) *Two Essays on Analytical Psychology* *Tr* from German by R F S Hull, p 67 68 (1953)

flavour The Jainas have given a more elaborate and scientific theory of *karma* The law of *karma* is the ultimate determinant of various courses of life both physical and mental In fact, our physical stature and our birth in particular social surroundings is the result of the *karma* we have accumulated The *karmic* matter goes on accumulating with the deeds we do The innate faculty of the soul is obscured by the particles of *karma* as the luminous light of the sun is obscured by the veil of clouds or by fog This obscuration is beginningless although it has an end The *karma* that binds us is both physical and psychical in nature The physical *karma* is material in nature, while the psychical *karma* comprises those psychic effects and states which are produced in the soul owing to the influx of the physical *karma* *Karmic* atoms are classified into eight types[53] *Jñānāvarnīya karma* obscures the cognitive faculties *Darśanāvarnīya karma* obscures the intuitive faculty *Mohanīya karma* deludes us Similarly, specific types of *karma* determine our age, our physique, the states, and even the power and activity of life The force of *karma* works implicitly and makes us what we are in both body and mind Thus, it was suggested, the operation of *karma* can be compared to the operation of the collective or racial unconscious The collective unconscious stands for the objective psyche In his more recent essays, Jung writes 'The contents of archetypical character are manifestations of a process in the collective unconscious Hence, they do not refer to anything that is or has been conscious, but to something essentially unconscious" [54] Elsewhere, Jung writes that the personal layer ends at the earliest memories of infancy, but the collective layer comprises the pre-infantile period that is the residue of ancestral life It contains the archetypes of very ancient images He says that it is possible to find the *karmic* factor in the archetypes of the unconscious "The *karma* aspect is essential to the deeper understanding of the nature of an archetype" [55] It is sometimes suggested that the comparison between the operation of *karma* and that of the collective unconscious is inadequate There is no question of common inheritance except in the physical make up Each individual has his peculiar *karma prakrti*, which cannot be derived from common inheritance It may, however, be pointed out that the archetypes do refer to the common heritage that each individual shares with his community

However, Jung developed the concept of the collective unconscious on the psychological plane with reference to the psycho-analytical study of the interpretation of dreams and fantasy From this side, the

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53 Note *Gommatasāra Karma kānda* gives a detailed analysis of *karma*
Also refer to Glassenapp jr (Ton) *The Doctrine of Karma in Jaina Philosophy*

54 Jung (C G) *Introduction to a Science of Mythology* p 104

55 Jung (C G) *Two Essays on Analytical Psychology* Personal and the collective (or transcendental unconscious), p 76 foot note

archteypes are fundamental patterns of symbol formation Had he developed the archetypes of the collective unconscious, he would have reached the doctrine of *karma*, the store-house of the physical and psychical effects of the past He would have realized that the force of the unconscious is the force of *karma* which determines the future course of life

The metaphysical state of the unconscious has been an equally important problem for the philosophers In the development of Indian thought three distinct views can be stated (i) there is no entity such as consciousness The unconscious alone exists This is the view presented by the materialists This view is associated with the Cārvāka view. (ii) Consciousness alone exists There is nothing like the unconscious This view is expressed by the monistic idealists of the Vedānta The Vedāntist believes that there is nothing but consciousness, or the *cit*, which wrongly superimposes unconsciousness upon itself by making an object of itself The unconscious is created by the process of self-objectification The appearance of the pure consciousness is due to its reflection in its limiting adjuncts The pure *cit* wrongly identifies itself with the varying forms of the limiting adjuncts, as the moon in the water appears shaking because of the water shaking

Similarly, the all-pervading *cit* may be limited by *manas, buddhi* and *ahamkāra*, as the *ākāśa* which, though unbounded, is spoken of as bound according as it takes the form of a jug or a cloud The unconscious is only the self-limitation of the limitless Again, some Vedāntists maintain that the unconscious is due to the limitation of consciousness through the nescience of *avidyā*, and discriminative knowledge removes this veil of the unconscious, as the son of Kunti was known as the son of Rādhā and was believed to belong to a low caste because he was brought up in such a family [56] However, the Vedāntin accepts that from the practical point of view, things exist outside our consciousness and there exists a realm of unconscious in our midst But it is due to the fact that our consciousness has not yet attained its highest stage of possibility But when the range of consciousness is so widened as to include the realm of the subconscious and the unconscious, then it becomes identical with the universal consciousness in which there is nothing except itself Thus the unconscious is only the receding and vanishing point of consciousness which alone exists as a permanent reality [57] This is the picture of the monists

The dualists maintain that consciousness and the unconscious exist side by side and independently This is the view of the *Sāmkhya* and the *Yoga* philosophy *Purusa* is conscious and *prakrti* is unconscious They meet to create experience The *purusa* is reflected in the *buddhi* which is

56 *Siddhāntatarkasamgraha*, p 158

57 Saksena (S K) *The Nature of Consciousness in Hindu Philosophy* p 166

unconscious, just as a face is reflected in a mirror Vijñānabhiksu maintains that the reflection is mutual, because the *buddhi* is reflected back in the *purusa* The unconscious *buddhi* seems to be conscious owing to its proximity to the conscious *purusa* But the Jaina philosophers have shown some of the defects of this theory Ācārya Hemacandra has said of the *Sāmkhya Yoga* doctrine that in it consciousness does not know objects, the *buddhi* is unconscious and what else would be more self-contradictory than this?[58] Vidyānandi says that, the *purusa* being of the nature of non-knowledge, how could Kapila be the instructor of truth even like one in deep sleep? The *prakrti* is also unconscious and like a jar it cannot fulfill the function of instruction The Jaina admits with the Vedāntin the possibility of pure consciousness at least in the final state of emancipation, because consciousness is the very essence of the soul Even in the stage of bondage there is not a single moment in which the *self* ceases to be conscious Bondage is the limitation of consciousness by means of the veil of *karma* and what comes through the channel of the senses *Karma* is the unconscious principle which veils right knowledge and right intuition Ignorance and delusion are not, then, innate but are produced through the influx of *karma* The senses are rather handicaps than instruments of knowledge In omniscience, the self and its consciousness are released from its barriers and the *self* attains omniscience However, the Jainas do not believe that the limitation to consciousness is illusory It is a fact in the empirical world

In Western thought, Hartmann gave importance to the unconscious He said that the human mind is determined by the unconscious in love', 'unconscious in feeling and the 'unconscious in character and morality' For him, the unconscious is the absolute principle active in all things, the force which is operative in the inorganic, organic and mental alike yet not revealed in consciousness It is the unity of unconscious representations and will, the idea and the will The unconscious exists independently of space, time and individual existence, timeless before the being of the world For us, it is the unconscious in itself, it is the superconscious [59]

Note on Paśyattā

The ancient Jaina literature describes *upayoga* and along with it, also mentions *paśyattā* *Prajñāpanāsūtra* recognizes a peculiar mental force called *pāsanavā*, which is rendered as *paśattvā* in Sanskrit There is a description which states that both *upayoga* and *pāsanava* can be *sākāra* and *anākāra* [60] It means that *jñāna* and *darśana* belong to both *paśyattā* and *upayoga* *Paśyattā* originally corresponded to *drś* and now connotes

58 *Tattvārthasūtra* I v as quoted by Tatia N) in his *Studies in Jaina Philosophy* p 159
59 *Dictionary of Psychology and Philosophy* Vol II Unconscious'
60 *Prajñāpanāsūtra* 29, 30

'prolonged vision' with reference to determinate knowledge, and clear vision with reference to intuition[61]

Distinguishing between *upayoga* and *paśyattā*, the commentator Malayagiri says that *sākāra upayoga* consists of five classes of knowledge *mati*, *śruta*, *avadhi*, *manah-paryāya* and *kevala jñāna*, and also three types of wrong cognition *kumati*, *kuśruta* and *avadhi-ajñāna*, while *sākāra paśyattā* consists of six classes because *matijñāna* and *mati-ajñāna*, are not included in them Similarly, *anākāra upayoga* is *darśana* It has four types *caksudarśana* (visual), *acaksudarśana* (intuition which is due to the mind and other sense organs except the eyes), *avadhidarśana* and *kevaladarśana* *Anākāra paśyattā*, on the other hand, consists only of three classes, because *acaksudarśana*, which is devoid of clear vision, cannot possess *paśyattā*[62] *Paśyattā* thus means prolonged vision or clear vision However, the clear meaning is not stated, although their sub-divisions are mentioned The distinction between *upayoga* and *paśyattā* and their sub-divisions canot be dismissed as mere fancy of the ancient philosophers We have analysed *upayoga* as horme, the psychic force in life Similarly, it would be possible to say that the ancient Jaina philosophers were aware of the psychic force which holds our experience and which later becomes the basis for new experience Mneme is the first general property of the mind[63] It is the power of the mind by which the past is retained Ross says that it is the general truth of living organisms that all life processes leave behind the modification of structure, both in the individual and the racial sense In our mental structure are conserved the after-effects of all our individual experiences and probably many of the experiences of our ancestors also[64] The same idea is incorporated in the theory of Anemnesis in Plato's Dialogues *Meno*[65] Knowledge is attained by the recollection in one's life of realities and truths seen and known by the soul before its incarnation But Mneme is not to be identified with memory, although memory is possible through the mnemic force, which is wider than memory Memory is mneme raising to the level of awareness When I recognize my friend in the street I do not say that I remember his face, but again my recognition is possible in virtue of past experience in which my friend has figured, and it is therefore a manifestation of mneme'[66] It is possible that lower animals have the power of mneme In the lower animals also it operates both in the individual and the racial sense Birds build their nests after the racial pattern and they cross the sea at particular places

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61 Malayagiri's commentary on *Prajñāpanāsūtra*, *pada 30* as quoted by Tatia (N) in his *Studies in Jaina Philosophy* p 71

62 op cit pada 30

63 Nunn (T P) *Education, its Data and First Principles*, 3rd Ed, p 24

64 Ross (James) *Groundwork of Educational Psychology* p 44 (1951)

65 '*Meno* 81, a

66 Ross (James) *Groundwork of Educational Psychology*, page 45 (1951)

From the analysis of mneme given above, it appears that similar ideas, though in a more simple manner, must have influenced the Jaina philosophers to point out the presence of *paśyattā* as distinct from *upayoga*, which is the life force for conscious experience In the divisions of *paśyattā* given by Malayagiri, it is mentioned that *paśyattā* has no *mati jñāna* and *mati ajñāna* as its forms *Matijñāna* is direct sense experience which arises from the contact of the sense organs with an object, although knowledge due to mind is also included in *matijñāna* Hence, *paśyattā* would not include the formation of direct sense experience, although other forms of experience are included Therefore it would not be inappropritate to say that *paśyattā* is the power of the mind by which we retain our experiences and which becomes the basis for more experiences However, we should not forget the fact that the ancient Jaina philosophers, as all other ancient Indian philosophers, were not clearly aware of the psychological significance of the problem Theirs was insight and philosophic speculation

CHAPTER IV

THE SENSE ORGANS AND THE SENSES

The soul gets embodied through the accumulation of *karma* Then starts the wheel of *samsāra* The embodied soul comes into contact with the objects of the world and tries to grasp the nature of things through the specialized sources of the body They are the sense organs

The Jaina thinkers, like other ancient philosophers of India, recognized two varieties of comprehension—sensory and extra-sensory Sensory comprehension is conditioned by the senses and the mind, whereas extra-sensory comprehension occurs directly in the pure consciousness Sensory comprehension is possible through the sense organs The sense organs are very often considered as windows through which the soul cognizes the external world In *Ganadharavāda* we get a description of the process of cognition as coming out through the senses, as Devadatta looks through the five windows of his palace [1] *Pañcāstikāyasāra* describes the function of the sense in a similar way The sense organs are denoted by the word *indriya*, and *indriya* refers to the instrumental nature of the source of knowledge There are two ways in which the word *indriya* can be looked at *Indriya* is referred to as the capacity of experience it is *paramaiśvarya upabhoga samartha* It is also referred to as that through which experience is possible *idyate iti indriyam* [2] The Jaina philosophers called such cognition *paroksa jñāna* (indirect knowledge), because it comes through the sense organs, which are different from the soul Later, it began to be called *samvyavahāra pratyaksa* [3] The Jainas considered that the *indriyas* are impediments to the attainment of pure consciousness and also to the purification of the soul *Indriyas* are the source through which *karma* can flow in, and the source of empirical cognition In the *Upanisads,* the nature and function of the sense organs have been described The *Ātman* was first alone He knew He was self-conscious Then he became embodied The sense organs became instruments through which experience is possible Regarding the number of sense organs, Prajāpati is said to have described sixteen parts of the body [4] In the *Praśna Upanisad* the parts are enumerated The *indriyas* are considered as one The *Śvetāśvatara Upanisad* also gives such a classification The distinction between the sense organs, *jñānendriyas*,

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1 *Ganadharavāda* Discussion with the Third Ganadhara Vāyubhūti Also refer to *Sūtra kṛtānga* 33 (Commentary)

2 *Abhidhānarājendra* Vol II, p 548

3 *Viśesāvaśyakabhāsya*, 95

4 *Praśna Upanisads* as quoted by Deussen in *Philosophy of the Upanisads* p 268

and motor organs, *karmendriyas*, was made later. The name of *indriya* for an organ of sense was first mentioned in the *Kauṣītaki Upaniṣad*. In the *Praśna Upaniṣad* the ten *indriyas* were subordinated to the *manas* as the central organ. In the *Maitri Upaniṣad*, the *jñānendriyas* are described as the five reins, the motor organs *(karmendriyas)*, are the horses, *manas* is the driver, *prakṛti* is the whip,[5] the vocal organ, the prehensive organ, the locomotive organ, the evacuative organ and the generative organ are the five *karmendriyas*.

The Buddhists recognize six varieties of consciousness, visual, olfactory, gustatory, tactile, and purely mental. Then there are six *āśravas*, the repositories of the functions of the senses. They are the visual, auditory, olfactory, gustatory and tactual organs, and also the mind. The five sense organs are made up of the five elements.

But following the tradition of the *Upaniṣadic* thought as in the *Praśna* and *Maitri*, the Sāmkhya philosophers mentioned the organs and *manas*, which are instruments of the soul for experience and activity. They have mentioned five sense organs, five motor organs, and *manas*.[6] Sometimes, thirteen organs are mentioned, including *ahamkāra* and *buddhi*. In that case, mind, *ahamkāra*, and *buddhi* are the internal organs called *antahkaraṇa*, and the other ten are the external organs. The sense organs are not the products of gross matter but of *ahamkāra*. *Ahamkāra* is psycho-physical in nature. The functions of the sense organs are sensory in nature. They are concerned with getting experience. They are, therefore, called *jñānendriyas*. The function of the motor organs is bodily activity. They are therefore, called *karmendriyas*. The functions of the two can be compared to the afferent and efferent nervous systems. In the evolution of life from *ahamkāra*, the *manas*, the sense organs and the motor organs are developed out of the preponderance of *sattva*. The '*Tanmātrās*' are due to *tamas*. *Rajas* is the force which gives impetus to *sattva* and *tamas*. But Vijñānabhikṣu says that mind alone is due to *sattva*, while the sense organs and the motor organs have evolved out of *Rajas*. The internal organs are described as the main gate-keepers, while external sense organs are the subordinate gate-keepers.

Śamkara accepts the view that there are eleven organs *(indriyas)*: five sense organs *(jñānendriyas)*, five motor organs *(karmendriyas)*, and one internal organ *(antahkaraṇa)*. The *antahkaraṇa* assumes different forms according to the diverse functions it takes. For instance, the function of *manas* is doubt, the function of *buddhi* is determination. *Ahamkāra* is ego consciousness, and *citta* is concerned with recollection. The five sense organs are made of elements like earth, water, air, fire and *ākāśa*. The *sattvic* part is predominant in the *jñānendriyas*. The *rajas* part predominates

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5 *Maitri Upaniṣad* 2.6

6 Vijñānabhikṣu *Sāmkhya pravacana bhāṣya*

in the *karmendriyas* The internal organs are made up of the *sattvic* part and the five elements combined

The Jainas have accepted the five sense organs alone, although the mind is considered as a quasi-sense organ, a *no-indriya* The motor organs are recognized as instruments of experience and behaviour The Jainas argue that, if motor organs were to be recognized as *indriyas* only because they are instruments of special types of physical function, then the number of *indriyas* would have to be extended indefinitely [7] The Jainas treat as *indriyas* only those which are the conditions of specific cognition [8]

Zimmer says that, according to the Jainas, the life monads enjoying the highest states of being, human or divine, are possessed of five sense faculties as well as of a thinking faculty *(manas)*, and the span of life *(āyus)*, physical strength *(kāya bala)*, power of speech *(vāca bala)*, and the power of respiration *(śvāsocchvāsa bala)* In the *Sāmkhya Yoga* and the Vedānta systems, five faculties of action *(karmendriyas)*, are added to the five sense faculties The *karmendriyas* are analogous to the Jaina idea of *bala* 'Apparently, the Jaina categories represent a comparatively primitive archaic analysis and description of human nature, many of the details of which underlie and remain incorporated in the later classic Indian view' [9]

The *Nyāya* system has similar arguments against the recognition of motor organs as *indriyas* Jayanta maintains that if the tongue, hands and feet etc , are regarded as *indriyas*, many other organs should also be admitted as such The function of swallowing food is discharged by the throat The breast performs the function of embracing The shoulders carry burden All these should, then, be recognized as organs or *indriyas* [10] Again the function of one sense organ cannot be discharged by another For instance, visual cognition is not possible without eyes But that is not the case with motor organs A person grasps things with his hands, but can also walk a little with his hands If the different parts of the body doing different functions are included among motor organs, the throat, the breast and the shoulders would all be motor organs The Jainas made the same point In fact, the Jainas say that all motor organs can be included in the tactual sense organ [11]

Even in the West, the problem of classification of the sense organs has been very old It very often depends on the view taken of the sensations originating in the skin and the internal organs of the body Traditionally, there are five special senses vision, audition, smell, taste, and touch or feeling Aristotle mentioned the five senses, although he expressed

7 *Pramānamīmāmsā* I 1 21 79 line 20 '*ceṣṭāviśeṣāṇāmanantatvāt*

8 Op cit 79 line 19 *Jñānaviśeṣahetūnāmevendriyatvenādhikṛtatvāt*

9 Zimmer *Philosophies of India* Ed by Campbell, p 228

10 *Nyāya Mañjarī* p 482 83

11 *Tattvārthaslokavārttika*, p 326

some doubt about touch as a single sense Current popular usage is in the Aristotelian tradition However, at different times, specially of recent years, the list has been expanded The 'extra' senses have come out of the sense of feeling by the process of sub division Boring, listing the sense qualities of feeling, includes pressure and other factors in the sense of feeling [12] In the history of classification of the senses, there have been in general three logically distinct approaches They may be grouped together (i) qualitatively, on the basis of observational similarity, (ii) stimulus-wise, with respect to the object or forms of physical energy that logically set them off, and (iii) anatomicaly, in accordance with the system of sense organs Geldard says that the anatomical basis seems to provide the best organizational principle For instance, we could talk of the sense of green and the sense of grey, but since we know that the production of these qualities is the work of a single anatomical unit, the eye, we are accustomed to group the two classes of sense experiences together as visual [13]

Modern physiology maintains that all movement is due to the activity of the muscles Muscles are made of bundles of contractile fibres by which movements are effected There are three types of muscles (i) skeletal muscles, (ii) smooth muscles, and (iii) cardiac muscles Cardiac muscles are controlled by the nervous system, and are located in the heart Skeletal muscles have a much wider distribution They are attached to the bones of the skeleton, making bodily movement possible Smooth muscles are found in many of the internal organs, as in the stomach walls and in the iris of the eye Reflex and voluntary movements are possible because of muscles In man, muscles are controlled by the nervous system The nervous system consists of a mechanism for perceiving change in the environment, and another for reacting to the environment [14] Thus, all physiological functions are possible owing to the stimulation of the afferent nervous system which reacts through efferant nerves by using the muscles and tendons in its activity In this sense, it could well be said that all physical functions may arise out of the sense of touch In invertebrate animals like the protozoa, the chemical sense seems to be the only sense for all experience and activity Scientists are not agreed on the question whether these animals show reactions owing to the chemical sense or to the mechanical stimulation Schaeffer thinks that it is due to mechanical stimulation Metalnikov believes that the discrimination is a chemical one [15] The same problem continues to vex scientists in the case of animals like the coelenterates, flat worms, annelids, molluscs

12 Geldard (F A) *The Human Senses* p 159

13 *Op cit* p 160

14 Langley and Cheraskin *Physiology of Man* Ch 3

15 Washburn (Margaret F) *The Animal Mind*, p 60

even up to the insect level Thus, we find that in the case of the lower animals, especially the invertebrates, the sense of touch appears to be predominant and to be the source of all experience and activity

The Jaina philosophers, as pointed out earlier, showed that all motor organs can be reduced to experiences due to the sense of touch [16] However, this does not mean that the anceint Jaina philosophers scientifically annalysed the physiological processes of motor responses Knowledge of physiology had not developed to the stage required for such analysis But their insight showed them that all bodily functions including those of speech, excretion and reproduction, are reducible to muscular movement due to the nervous stimulation and response

It is for this reason that the senses were regarded as mutually identical when looked at from the standpoint of unity of substance They had all of them fundamental identity All of them involved neural responses But this identity is not absolute They were regarded as numerically different from another point of view Their specific functions were different This attitude is due to the catholic outlook of the Jainas, which made them ready to accept all correct points of view, however they differed from their own This is due to the *anekānta vāda* of the Jainas If the sense organs were identical, then the organ of touch would experience taste and the rest also In that case, the other organs would be superfluous Further, the perfection of, or partial injury to, one organ would similarly affect the other sense organs Similarly, if the difference between the sense organs were absolute, they could not possibly cooperate in giving a synthetic judgment, like 'I see what I touch' [17] For instance, we very often get an experience like, I see the ice is cold

But we cannot attribute to the ancient Jaina philosophers experimental acumen in the physiological and psychological analysis of the nature of sense organs This analysis was more from the metaphysical point of view The Jainas accepted the identity and also the diversity of the sense organs because of their logical outlook Their non-absolutist *anekānta* attitude to the problems of life gave them insight to find the truth in the different views presented Thus, the analysis of the sense organs presented by the Jaina philosophers was more a result of philosophic insight than of scientific analysis However, it cannot be denied that the analysis comes nearer to the description of the senses and their distinctions given by the modern physiologists, although the Jainas were not aware of the experimental and analytic basis required for such a description

16 *Tattvārthaślokavārttika*

17 *Pramāṇamīmāṁsā* Commentry 1 1 21 80

The Jaina analysis of the structure and functions of the sense organs is unique and deserves study with reference to the problems of modern physiology. It is not possible for us to go into the details of the analysis of the sense organs in the light of the discoveries of modern physiology, as it would be outside the scope of the present work. However, a brief survey of such comparative analysis is necessary.

The senses are called *indriyas* because they have been produced by *indra*, which means *karma*. They are the manifestations of *nāma-karma*, which is the *karma* which determines the nature and composition of our organism. The *nāma-karma* determines what body we shall get, whether a human body or the body of a lower animal. Similarly, the physiological defects of individuals are due to this *karma*. The nature and functions of the sense organs are determined by the *nāma-karma*. The sense organs serve as organs of perception of objects for a soul which is polluted with *karma*. The soul in a state of such pollution would not be able to get the direct knowledge due to its own nature and pure consciousness, for it is clouded by the knowledge-obscuring—*jñānāvaranīya*—and intuition-obscuring—*darśanāvaranīya karma*. In such an embodied state of the soul, experience and knowledge are possible only through the instrumentality of sense organs. Therefore, sense organs are the means through which empirical knowledge is possible.

According to the Jainas there are five sense organs like the tactual, the gustatory, the olfactory, the visual, and the auditory. Each of these has its own characteristic capacity of experiencing touch taste, smell, colour, and sound. Each of these organs is structurally of two parts, the physical and the psychical. The physical part of the sense organ is called *dravyendriya*. The psychical part is called *bhāvendriya*.[18] The physical part of the sense organs is caused by the rise of the corresponding *nāma-karma*. The psychical part of the sense organs is caused by the destruction and subsidence of the knowledge-obscuring *karma*, *jñānāvaranīya karma*. Each of these two parts is again sub-divided in two parts as *dravyendriya* is divided into (i) *nivrtti* and (ii) *upakarana*. *Nivrtti* is the organ itself and *upakarana* is the protective physical cover like the eye-lid in the case of the eye. Each of these two, again, is sub-divided in two parts *antaranga* and *bahiranga*—internal and external. The internal part (*antaranga*), is very often talked of as soul itself. It is to be identified with the psychic element which is necessary for any experience. It permeates the whole sense organ. *Bahiranga* (the external sense part), is the material which is permeated by the psychic element. In the case of *upakarana*, the protective cover like the eye-lid is the *bahiranga*. The matter immediately surrounding the eye may be identified with the *antaranga* of the physical part of the sense organ,

18 *Pramānamīmāmsā* I and 21

although it is possible to say that in all cases the *antaranga* refers to the psychic element present in the sense organs and necessary for sense experience However, it would be more appropriate to speak of the *antaranga* of the material sense organ in terms of the material only, and, in that sense, it would be apter to say that the *antaranga* of the *dravyendriya* refers to the matter that is inside the sense organ and is permeated by the psychic element For instance, we compare this to the cornea of the eye In fact, we may also include the vitreous humour in the eye

The *bhāvendriya*, the psychic part of the sense organ, is also divided into two parts (i) *labdhi*, and (ii) *upayoga*[19] *Labdhi* is the manifestation of the specific sense experience due to the destruction and subsidence of the knowledge-obscuring *karma* In fact, it may be said to refer to the removal of the psychic impediments which have to be eliminated if sense experience is to be possible These impediments are not physical like insufficiency of light in the case of vision, but psychic, in the case of the sense experience itself *Upayoga* is the psychic force determining the specific sense experience coming out of the contact of the specific sense organ with the object of stimulation It is the force of horme operating in all psychic life and especially operating in a specific way in the determination of the sense experience The word horme has been used ealier as the psychic force which determines our experience and behaviour This force operates in a specific sense experience, like sight, hearing, smell, taste and touch Although *upayoga* is the common force necessary for all these experiences, it gives rise to different experiences in the different senses, because it gets specific expressions from the physiological and psychic conditions differently presented A general table of the distinction of the structure of the sense organs is given in table 2 It is based on the analysis of the structure of the sense organs as given by the Jainas The details of the structure are worked out on the basis of the description given by Umāsvāti in *Tattvārthasūtra*[20] Chapter II

Thus, the Jainas make a distinction between the physical structure and the psychic element involved in the sense organs The physical part is the organ itself It is the physiological instrument through which the individual receives the sense impressions The outer part of the structure is the protective organ It also facilitates the reception of the external stimulation The internal part of the structure refers to the sensory nerves and the humours as in the case of the eye

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19 *Ācārānga*—Sutra 2 a and *Prajñāpanā* 1 '*labdhi upayoga bhāvendriyam*'

20 (a) *Tattvārtha Sūtra* Ch II *Sūtras* 16 17 and 18

(b) Also refer to *Abhidhānarājendra* Vol 2 p 445

(c) *Tarkasamgraha* Ed by Athalye Notes at the end

(d) *Prmanamimāmsa* I 21, 22, 23

It is the *antaranga* *Nivrtti* is the internal physiological composition of the sense organ *Upayoga* is the hormic force which is responsible for the sense experience *Labdhi* is the manifestation of the horme in order to produce a specific sense experience under suitable psychic and physiological conditions

The Jainas have given a detailed analysis of the structure of the different sense organs For instance, the internal part of the sense of hearing is like the *kadamba* flower or like a ball of flesh, *māmsa-golā-kāra* The internal eye is of the size of a grain of corn, *dhānya masūrākāra* The sense organ of smell is like a flower, *mukta kusuma candra* The organ of taste is like the edge of a knife The sense of touch is of various forms Similar descriptions can be given regarding the *upakarana* or protective cover of the organ For instance, the external part of the organ of taste consists of a collection of clear particles of matter, *svecchatara pudgala samūha*[21]

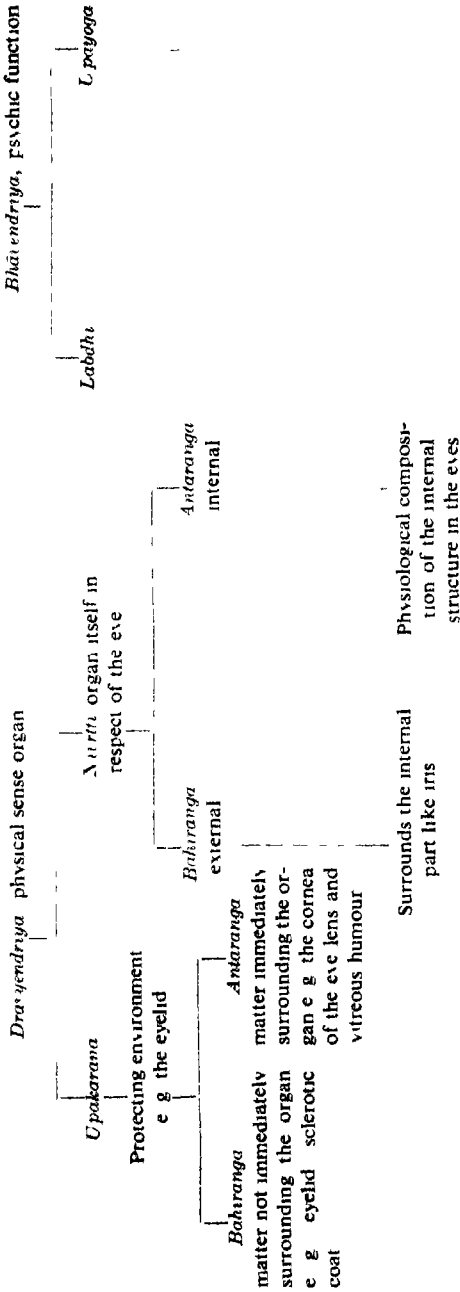
The spread-outness of the sense organs is another problem mentioned by the Jainas[22] The eye is the smallest The organ of hearing is also small, but it is bigger than the eye Sometimes it expands when it hears loud sounds The organ of smell occupies the largest space However, it is limited in extent If it were unlimited in extent, experience of smell would be possible even when the object touches any part of the body But this is not the fact The organ of taste has greater extent, although it is still limited, *angula mita* However, the sense organ of touch is unlimited in extent It pervades the whole body It is *śarīra vyāpaka* Thus the sense of touch is considered by the Jainas as primary in one more sense It is possible in any part of the body

Modern psychologists point out that the sense organ of touch is really unlimited in extent, because it gives rise to various sense exprerience like pressure, temperature and organic pain In fact, even the internal parts of the organism give us experiences which are reducible to the experience due to tactile stimulation Organic pains like stomach-ache are, in fact species of the experience of touch In this sense, all sense experiences can be reduced to the tactile sense experience The Jainas can be said to be justified in giving primacy to the sense of touch

The Jaina description of the different parts of the organs may well be compared to the description of the sense organs given by modern physiologists, although the latter have given an accurate and detailed analysis of the structure of sense organs based on experimental investigations We may however, note that experimental investigation was

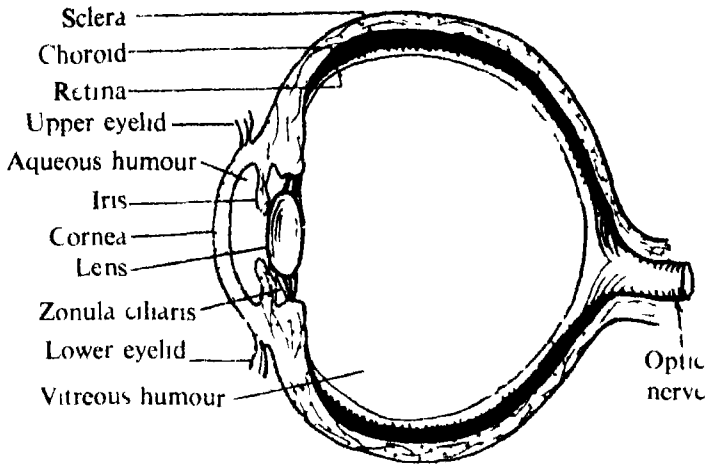
21 *Abhidhānarājendra* Vol 2 *Indriya*
22 *Prajñāpanāsutra* 15

TABLE No. II

Sense Organs

The senses are five —

1. *Sparsana*—Organ of touch, i e the skin, the whole bod It has no distinction between the outer and the inner
2. *Rasana*— Taste — tongue
3. *Ghrāna*— Smell — nose
4. *Caksu*— Sight — eyes
5. *Śrotra*— Hearing— ears

not possible in those days Modern physiologists say that the vision is far more complex than any other sense organ We may take the example of the anatomy of the human eye for comparison Fig 1 shows the comparative picture of the anatomy of the human eye according to the modern physiological and the Jaina view[23] The outer layer

Fig 1

DRAVYENDRIYA

BAHIRANGA	*ANTARANGA*
Upakarana includes protective cover Includes eyelids and sclerotic coat	Includes aqueous humour and choroid coat
Nivrtti of *Dravyendriya* is compared to the matter that surrounds the internal part Iris may be included in this	Shows the physiological internal composition of the sense organ It includes retina, vitreous humour and lens

of the material sense organ of the eye consists of a tough resistant material which is termed sclera This material gives substance to the eye-ball The most forward part of the sclera is transparent It is called cornea It is a tough resistant material which permits the passage of light rays and protects the eye The eye-lids and the sclera may

23 Langley and Cheraskin *The Physiology of Man* p 97 and *Human Senses* by Geldard 11-100

together be compared to the outer protective cover of the structure of the *dravyendriya* It is the *upakarana* of the eye In fact, eyelids are the outer part and the cornea is the inner part On the inside of the back is the retina which is most important It is a system of highly specialized nerve cells The cells are receptors sensitive to light The image is focussed upon this layer The retina consists of two types of nerve cells, rods and cones Then we have the lens, which is transparent, consisting of a semi-solid substance enveloped by a thin capsule Just in front of the lense is the thin muscular layer of the iris It has an opening at the centre through which the light rays may pass This circular aperture is the pupil of the eye The lens, the iris and the pupil can be compared to the *nivrtti*, specially to the external part of the *nivrtti* The retina and the vitreous humour may be compared to the internal part of the *nivrtti* Similarly, the aqueous humour between the cornea and the lens may also be included in this

The physiologists do not account for the psychic part of the sense organ which has been calld *bhāvendriya* It refers to the psychic factors which are necessary conditions for the sense organs giving the sense experience The basic psychological factor required for the sense experience of the specific sense organ is the psychic force, the horme, which has been called the *upayoga* This force is operating in all experience and behaviour and is responsible for the specific sense experience But, before we get a sense experience, like sight, certain psychological impediments have to be removed For instance, diversion of attention, and subjective conditions like prejudice and bias, have to be minimised if we are to get a correct sense experience For instance, as Munn says, for every sense experience we have a mental set which determines a type of the specific sense experience that we get [24] This set may be inherited or acquired This psychological factor may be compared to the *labdhi* of the *bhāvendriya*, which is the expression of the hormic force in the specific form due to the partial destruction and subsidence of the knowledge-obscuring *karmas* relating to that sense

The problem of the contact of the sense organs with the object of stimulation is an important one in Indian thought It has a great psychological significance Almost all the systems of Indian thought were aware of this problem and have expressed themselves in one form or another The *Nyāya Vaiśesika*, the *Sāmkhya*, the *Mīmāmsaka* and the *Vedānta* schools of thought believe that all the sense organs get sensory experience through direct contact of the object of stimulation

24 Munn *Psychology* p 310-311
Drever defines 'set' as a temporary condition of the organism facilitating a certain more or less specific type of activity or response as in mental set or neural set- Dictionary of Psychology

with the sense organ This refers to the physical contact of the object of stimulation with the sense organ and the sense organs having such contact are called *prāpvakāri* The sense organs in which there is no such physical contact with the external stimulations are called *aprāpyakāri* According to the orthodox systems of Indian philosophy mentioned above, the sense organs are *prāpvakāri* because there is physical contact with the stimulation In fact, it is maintained by them that the sense organs move out to the object in the form of *vrtti*, or modification, and by taking in their form apprehend them The Buddhists believe that the visual sense organ and the auditory sense organ cognize their objects without coming into direct contact with them They are *aprāpvakāri* For all of them, however, the mind is *aprāpvakāri*, because it does not come in direct contact with the object The Jainas maintain that the visual organ like the mind, is *aprāpyakāri* because it does not come in contact with the object For instance, we get visual experience of the moon and mountains alike According to the Jainas, the eve does not go round to the mountain and then fix a point to form the *vrtti*, nor does it go round the stars and then fix on the moon to get the experience Such a movement of the eye round the objects of stimulation is absurd, and it contradicts our experience The Jainas say that light and darkness do not involve the eye going out to see light Moreover, the eye is not an external organ, *bāhyendriya* [25] The Jainas maintain that it is not true to say that there is a physical contact either of the nature of *anugraha* or *upaghāta* for the eye Seeing the blazing sun is not *upaghāta*, because the eye is the organ of light (*tejasendriya*), and matter of the same nature does not bring *anugraha* and *upaghāta* But the eye is not active while seeing the sun after the clouds have gone because there is deficiency of light The rays in the eyes are few compared to the abounding rays of the sun However, when we see the blazing sun our eyes do not ache

The Saṁkhyāyikas object to maintaining that the eye alone, like the mind, is *aprāpyakāri*, and the other four sense organs are *prāpyakāri* If that were the case, we may as well argue, they say, that all the sense organs are *aprāpvakāri*, because we, for instance, hear distant sounds and smell the fragrance of a flower from a distance But the Jainas say that this objection is not convincing [26] They point out that even those sense organs which are *prāpyakāri* do not go out to meet the objects for getting experience the objects themselves come in contact with the sense organs and the sense organs remain where they were It means that external stimulations, like sound waves, affect the ears and as a result we hear

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25 *Abhidhānarājendra* Vol II p 555

26 *Ibid* Vol II *Indriya*, 9 p 558

The Buddhists say that even the ear may be called *aprāpyakāri*, because we hear from a distance, and as there is no direct contact of the object with the sense organ It is *aprāpyakāri* because, in any type of auditory experience there is no physical contact For instance, a new-born infant will give the same type of response to the stimulation of a loud sound or of a pleasant sound Eeven if there is thunder, auditory experience may not be possible But the Jainas say this is not a correct explanation, because in the case of the infant the sense organs are not as yet well adapted and developed They have not sufficient capacity for grasping the sound The appropriateness of stimulation is one of the conditions of sensory experience In the case of hearing, the sound waves are received only when the sense organ is suitably developed and also when other conditions are favourable That is why they go to the appropriate places, *yogya deśāvasthita* For instance, a low tone is not generally heard, but if the beloved speaks in a low tone the lover quickly hears This refers to the psychological factor of interest which is a condition of specific sense experience We may include this in the *labdhi* of the *bhāvendriya* In the case of the auditory sense, the Jainas point out that, although the ear is a *prāpyakāri* and although some form of physical contact is necessary for the auditory experience, it is not direct physical contact with the stimulation as in the case of smell or taste In the case of taste specially, the stimulation is directly physical The particles of food, for instance, come actually in contact with the tongue Such direct physical contact is called *baddha spṛṣta*[27] The Jainas say that in the caseof the auditory sense organ the contact is there but it is indirect Stimulation like sound waves issuing from the object come in touch with the organ of hearing and we get the auditory experience

Modern physiologists describe the process of audition in these terms The sound waves are transmitted through the external auditory meatus to beat against the tympanic membrane As a result, the tympanic membrane is caused to vibrate in harmony with the frequency of sound waves The movement of the tympanic membrane in response to sound waves causes the auditory ossicles to move with it Under normal conditions, sound waves pass through the external auditory meatus and strike the ear-drum This energy is transmitted to the fluid of the inner ear and the hair cells in the organ of corti are caused to move and initiate an auditory impulse There are two theories concerning the mechanism by which the movement of the hair cells gives rise to impulses in the auditory nerve (i) through a microphonic effect, and (ii) through a chemical mediator At present, evidence is not conclusive for either theory[28]

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27 *Abhidhānarājendra* Vol II p 557

28 Langley and Cheraskin *Physiology of Man* Chapter on Hearing

For a detailed description of the theory refer to *Comparative Animal Physiology* ed by C Ladd, Ch 13 Phono Reception

Thus, the Jainas believe that the auditory, gustatory, olfactory and tactual sense organs are *prāpyakāri*, because the contact of the object with the sense organs is due to *upaghāta* a gross and subtle physical contact The touch of a blanket gives the experience of roughness, and contact with the sandal paste gives a sense of coolness Particles of camphor come in contact with the olfactory sense organs and we experience a smell[29] Similarly, soft sounds give a pleasant experience But in the case of the eye there is no contact between the sense organ and the object

On the basis of the analysis of perception given in modern science it is not possible to say that the Jaina view of the *aprāpyakāri* nature of the visual sense organ is not understandable, because some kind of contact of the external object with the sense organ is necessary even in this experience But it should be observed that light is only required to illuminate the object and not to serve as a medium between the eye and the object, for the eye can observe the object being itself untouched by the rays of light illumining the object

However, the problem of the contact of the sense organ with the object was viewed differently by the ancient Indian philosophers Their problem was to explain the possibility of cognition to the sense organ The Jainas had a realistic approach, and they refused to believe that the sense organ goes out to meet the object

C D Broad says that hearing is projective in its epistemological aspect, and is emanative in its physical aspect We may say that sight is ostensibly prehensive and not projective in its epistemological aspect, but is emanative in its physical aspect Touch is ostensibly prehensive in its epistemological aspect, and is non-emanative in its physical aspect[30]

The Jaina analysis of the *prāpyakāritva* of the sense organ of hearing and the *aprāpyakāritva* of the sense organ of sight may be compared to the analysis given by Broad, although the epistemological and physical aspects of the problem were not clear to the Jainas in that early stage of knowledge

Considering the capacity of the sense organs, the Jainas believe that the capacity of the eyes is greater The eye perceives things like mountains, which are at a distance, and things which are very near, like the parts of the body But it cannot see the dust in the eyelids The capacity is limited, because it cannot see things which are beyond a particular limit, like the farthest and the nearest The Vaiśesikas say that it is a defect of the eye But the Jainas maintain that it is the nature, the *svabhāva*, of the sense organ The auditory organ is of a similar nature But in the case of the ear there is a special power It grasps sound waves coming from as far as twelve *yojanas*

29 *Karkaśa kambala sparśa Karpūra pudgala ghrāṇa*

30 Broad (C D) *Religion Philosophy and Psychical Research*, p 31

if the wind is favourable and they are not obstructed It grasps the sound waves even inside the ear It is subtler than the sense organ of smell It receives sound waves of various types, but it grasps only those which are relevant, as the bird picks out milk from a mixture of milk and water—the *hamsaksīra*

Modern science recognizes that vision is the most important of all the senses Blind people learn to depend on other senses to a remarkable degree But for the loss of vision there is never anything like complete compensation We rely on vision for protection, for equilibration, for co-ordination, for creation and pleasure Next comes audition Then we have olfaction and other sense functions Audition ranks, perhaps, almost with vision In the case of man, olfactory acuity has been allowed to be atrophied The lower animals are far more dependent on their acute sense of smell than we are Actual survival hinges on the animal's ability to find food and to avoid enemies To some extent this was also the case with primitive man But as man advanced, the olfactory sense began to get restricted in its use Modern men use the olfactory sense for pleasure Audition, like vision, is important for protection, because this sense warns us of danger in the environment It also adds to our enjoyment Therefore, it is considered as a vital sense [31]

We may refer to the functions of the senses on the different animal levels According to the Jainas there are gradations of animal life At the lowest level, there are the one-sensed organisms called *ekendriyas* They may be earth-bodied, water-bodied, air-bodied and fire-bodied This level includes the vegetable kingdom Many of the organisms are minute or even microscopic They pervade the whole world They are described as *sakala loka vyāpinah* Some of them may be gross-bodied, and visible These organisms possess only the sense of touch No other sensory discrimination has been developed in them The amoeba, the paramecium and other protozoan animals, similarly coelenterates and even flat-worms, may be included in this list, although the Jainas have not mentioned any specific animal species in this category Modern comparative psychologists are not agreed on the question of the sensory experience of lower animals Some maintain that they have a chemical sense But some scientists like Schaeffer think the reaction of these animals may be due to mechanical stimulation Even in food-seeking the sense of touch is predominant. Romanes ascribed a certian amount of discrimination among mechanical stimuli to the sea-anemones In the case of planaria maculata, a species of flat-worms, Bardeen has suggested that auricular appendages on the animal's

31 Also refer to *Physiology of Man* by Langley and Cheraskin Chapter—Special Functions

back near the head end which are specifically sensitive to the touch, may be delicate organs capable of stimulation by slight currents in the water set up by minute organisms that prey on the animal's food, so that the primitive reaction when given to food may be really a response to mechanical stimulation.[32]

In the next stage are the two-sensed organisms called *dvendriyas*. They have the sense of touch and taste, which is like the chemical sense, although the chemical sense signifies a combined sense of both touch and taste. Comparative psychologists maintain that rudimentary animals, specially the water-dwelling animals, have smell and taste combined. They call it the chemical sense, for, in the aquatic animals smell and taste are actually the same. Lloyd Morgan has proposed the term 'talaesthetic taste' for the chemical sense of aquatic animals. But it is said that touch gives mechanical stimulation and is present in all animals. The Jainas say that touch is the basic sense. They describe in detail animals possessing the two senses. They give examples of animal species possessing the two senses. For instance, the conch, *candanaka*, *kapardaka*, *jelūkhi*, *golaka*, and *puttaraka*, belong to this class. These are the molluscan species. Among comparative psychologists there is general agreement regarding the presence of the chemical sense in the molluscan animals. Nagel regarded the horn of the marine snails as their most sensitive region. Pieron found that there are three modes of chemical excitability in these animals (i) an aerial distance excitability on all parts of the body with predominance of the mouth, the anterior edge of the foot, and the siphon, (ii) a contact sensibility in both air and water in the horns in the mouth, and (iii) a delicate distance sensibility in water located in the regions of the mouth, the horns, the anterior edge of the foot and the osphradial region.[33]

Three-sensed organisms possess a sense of touch, taste and smell. Many examples have been quoted. The ants have three senses. The four-sensed organisms possess the sense of touch, smell, taste and sight. The *bhramara* (the bee) has four senses. Many of these belong to the species of insects. But comparative psychologists are not agreed on the place of the sense of sight in insects. The homing of the bees and their recognition of their nest-mates were the two interesting problems which psychologists were faced with. Some scientists thought that vision is the guiding factor in these cases. However, Bethe thought that they were not guided by sight. He said there was some unknown force which guided them to their hives. Many scientists believe that smell plays an important part in this case. Modern scientists have observed that even simple animals like the amoeba give reaction to light stimulation. Schaefler reports a curious fact that the

32 Washburn (M.) *The Animal Mind*, IV Ed. Ch. V p. 67

33 *Ibid.* p. 71

amoeba can 'sense' a beam of light 20 microns to 120 microns distant moving towards it Many jellyfish react to light Romanes says that they possess a visual sense, but there is no positive evidence Some of the molluscan species possess eyes of some degree of development, although their reaction to light is very slow The crustacea are provided with a peculiar visual organ, the compound eye, and the chief fuction of this eye seems to be that of responding to shadows and movements As we go higher up in the animal scale, we find that the structure of the eye becomes more complex, and the compound eye gives rise to the simple eye with cones and rods The vertebrates, like fish (*matsya*), crocodile (*makara*), and man are five-sensed organisms Those possessing the five senses are divided into two groups (i) those possessing mind and intelligence, these are called *samjñīnah*, (ii) those who do not possess mind and intelligence, *asamjñīnah* It is not possible to say whether the Jainas showed a qualitative distinction between sense and reason However, they maintained that among the five sensed animals only some of them are *samjñins* Human beings belong to this class They possess specific mental states like memory, imagination and intellection [34] The *asamjñins* do not possess such mental qualities A further psychological analysis of this group is made by the Jainas They say that the *samjñins* are further divided into those which are incomplete and those which are complete Incomplete species are those in which the sense capacities do not work freely and are deficient in expression Such deficiency may be due to a defect of structure in the sense organ or in the mental capacity to grasp the sense experience This, in brief, is the classification of animals having sense organs Going higher in the scale of life, there are those beings who are not fettered with the sense organs They are called *anindriyas* They get pure and unalloyed experience, because sense experience, according to the Jainas, is experience at a lower level It is not direct experience of the soul It comes through the sense organs, which are a limitation Beings without sense organs come nearer to the realization of the highest experience Some of them are complete in mental equipment and capacity They are perfect beings They are *siddhas* Thus, from the psychological analysis of the development of animal life we go to the metaphysical nature of the soul found in the disembodied being The embodiment of the soul is a hindrance to the attainment of pure experience Pure experience is possible by removing the barrier of the senses The present stage of psychology cannot explain such a phenomenon as super-sensible experience, although it is possible to approach this problem through studies in para-psychology

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34 *Abhidhānrājendra* Vol II p 568

Samjñino samjñinasca tatra samjñānam samjñā cetanavadbhūtabhāvaśyambhāvaparyā locanam sā vidyate samjñinah viśistasmaranādirūpa manovijñānabhājavityarthah

and extra-sensory experience Research in this direction is both possible and necessary This problem will be referred to in a later chapter in which extra-sensory perception will be discussed

Sense qualities

Sense organs are instruments by means of which sense experience is possible The senses are capacities of experience, and the sensible qualities which exist outside are objects of experience For instance, the common element between the eye and the object is colour, and the common element in the case of hearing is sound They are stimulations The Jainas have given a psychological analysis of the sense qualities emerging from the experience of the various senses As Radhakrishnan says, a good deal of psychological analysis is discernible in the division of sense qualities[35] According to the Jainas, the visual sense quality of colour is classed into five types black (*krsna*), blue (*nīla*), yellow (*pīta*), white (*śukla*), and pink (*padma*)[36] Young supposed that there exist three distinct sets of nerve fibers, one set sensitive to red, one to green and the third to violet This theory has been expounded by Helmholtz There are three primary colour excitations and the mixture of these three gives different colour experiences All fibres are responsive, in some way, to all waves, though the red fibres are excited by the long waves Green fibres respond to those of medium length Violet fibres are maximally stimulated by short waves All colour experience results from these three simultaneous excitations based on the relative strength of the components in the stimulus of light This is the Trichromatic theory But Hering and Franklin have objected to this theory They maintain that yellow and white are as primary as the three colour qualities mentioned by Helmholtz Hering supposed that the primaries are to be arranged in pairs There are three complex substances, one mediating white-black, another red-green, and the third responsible for yellow-blue The white-black material is more plentifully supplied and is more readily excited than others When activated, it gives purely achromatic brilliance and can be depressed in direction by black only through light adaptation and contrast The other two substances behave differently, having their activity either depressed or augmented The red-green substance yields red when torn down by light, and green when built up In the yellow-blue substance, depression produces blue, whereas augmentation results in yellow The Ladd-Franklin theory represents, in a sense, a compromise between the trichromatic combination for mixture and the tetra-chromatic combination in its existence It points out that there are five primary colour qualities[37]

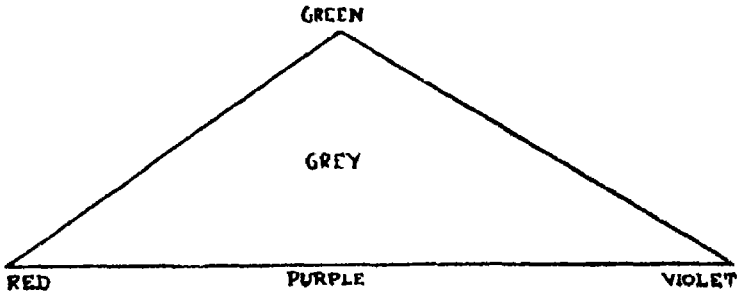
35 Radhakrishnan (S) *Indian Philosophy* Vol I p 309

36 *Tattvārthādhigamasūtra* Ch II, Sūtra 20

37 Spearman *Psychology Down the Ages* Vol 1, pp 199 200

In fact, Newton presented his celebrated triangle for explaining the natural phenomenon of the spectrum and the scope of the sense of sight The triangle places green at the apex, red and violet at the lower points, gray in the centre, and purple at the mid-base The figure is given in Table III Instead of this triangle, Wundt proposed a circle Titchner gives us a pyramid in which every possible chromatic or achromatic variation finds its due place[38] Whatever may be the difference between the views of the Jainas and of modern scientists, it may be said to the credit of the Jainas that they were aware that the five sense qualities are responsible for giving the variation in colour experience Modern scientists like Ladd and Franklin, and even Newton, have mentioned five primary qualities According to the Ladd-Franklin theory, there is a white-black whole and a yellow-blue whole, similarly, it mentions the red-green whole The Jainas did not mention red-green as a specific sense quality

TABLE III

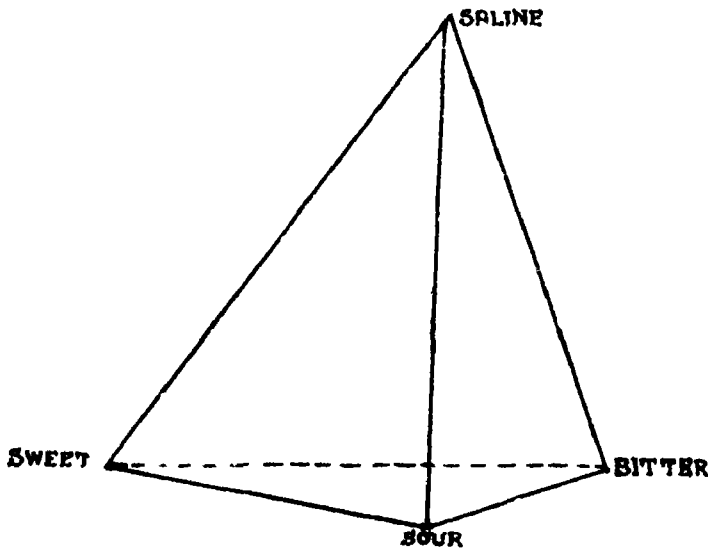
Newton's Triangle of Spectrum

Regarding sense qualities like touch, taste and smell, the Jainas give a detailed analysis of the different types of sense qualities Touch is of eight kinds, like hot (*usna*) and cold (*śīta*), rough (*ruksa*) and smooth (*snigdha*), soft (*komala*) and hard (*kathora*), light (*laghu*) and heavy (*guru*)[39] Modern scientists have realized that skin has the potentiality of yielding a greater diversity of sensations, because the skin proves to be responsive to a wide range of stimuli, like mechanical, thermal, electrical and chemical Mechanical stimulation gives rise to sensation of touch, contact and pressure Thermal stimulation produces the sense experience of warm and cold in various degrees Chemical stimuli have been worked to give rise to pain Chemicals and drugs have been of much interest for their quality of reducing pain Electrical stimulation of the skin

38 Spearman *Psychology Down the Ages* Vol 1 p 199--200

39 *Tattvārthādhigamasūtra* Ch II, *Sūtra* 20, with commentary

seems capable of arousing all systems of sensibility. Kinaesthetic and organic sensibilities of various types including hunger and organic pain belong to the sense of touch.[40] The Jainas say that there are five types of taste: pungent (*tikta*), bitter (*katu*), acid (*āmla*), sweet (*madhura*) and astringent (*kasāya*). Some scientists have accepted salt, sweet, bitter and sour as the primary taste qualities. However, there is no complete agreement on this point. In the Western thought, at the end of the sixteenth century, there were nine basic taste qualities, like sweet, sour, sharp, pungent, harsh, fatty, bitter, insipid and salty. By the middle of

TABLE IV

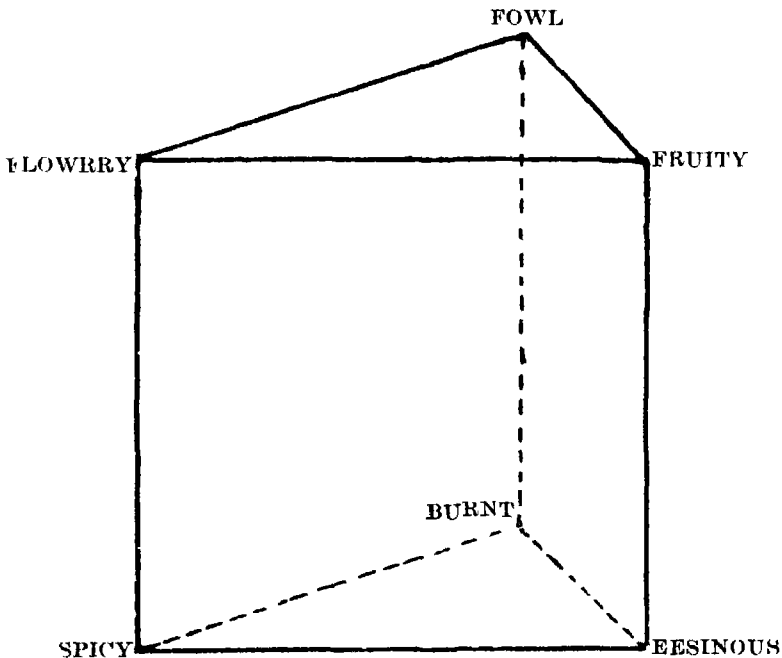
Henning's Taste-tetrahedron

the eighteenth century, some of them were gradually dropped, because it was found that they were merely mixtures of different taste qualities. Later, four qualities were accepted as primary. Henning's 'taste-tetrahedron' presents the relation between the four primary taste qualities: saline, sweet, sour and bitter. Various other taste qualities arise out of the inter-action of the primary qualities.[41] However, Henning views taste as one, and not four senses. Henning's tetrahedron is shown in Table IV.

The Jainas classified smell in only two types, as good, (*sugandha*) and bad (*durgandha*). No further distinction has been made.

40 Geldard (F. A.), *The Human Senses*, p. 313.
41 *Ibid.*, p. 313.

In the eighteenth century, in Europe, an odour system was devised Henning has given a scheme of odour prism which is shown in Table V The Crocker Henderson system posits four fundamental odours, like fragrant, acid, burnt, and caprylic All these classifications are partly based on experimental investigation and partly on rational insight But there are difficulties in the grouping of odours, because, as Woodworth points out, in the analysis of Henning's classification some odour qualities are not purely odour They are mixed up with taste qualities Zwaardemaker classified the smell qualities as ethereal (as in

TABLE V

Henning's Smell Prism

fruit), aromatic (as in spice), fragrant (as in flowers), ambrosial (as in musk), alliaceous (as in onion), ampyreumatic (as in tar), hircine (as in cheese), repulsive (as in laudanum), and nauseous (as in decaying flesh)[42] This is a very elaborate, even clumsy, classification It does not mention the primary sense qualities alone The Jainas gave an analysis of the odour qualities, and in fact of all sense qualities, on the basis of rational insight They thought it safer to analyse the smell sense qualities into two major categories, as good and bad

42 Geldard (F A) *The Human Senses*, p 315

The traditional exposition of the seven fundamental sounds (*svara*) mixing in various ways to form melodies of various types, has been accepted by the Jainas The seven sounds are *sadja*, *rsabha*, *gāndhāra*, *madhyama*, *pañcama*, *dhaivata*, and *nisādha* In the Western sound system, we get the following· *Do*, *re*, *me*, *fa*, *sol*, *la*, and *si* In all, there are twenty-seven main kinds which can be combined in innumerable

TABLE VI

1 *Sparśa*—Touch—8 kinds	(1) *Usna* (hot), (2) *Śīta* (cold), (3) *Ruksa* (rough), (4) *Snigdha* (smooth), (5) *Komala* (soft), (6) *Kathora* (hard), (7) *Laghu* (light), (8) *Guru* (heavy)
2 *Rasa*—Taste-5 kinds	(1) *Tikta* (pungent), (2 *Amla* (acid), (3) *Katu* (bitter) (4) *Madhura* (sweet), (5) *Kasāya* (astringent)
3 *Varna*—Colour—5 kinds	(1) *Krsna* (black), (2) *Nīla* (blue) (3) *Pita* (yellow), (4) *Sukla* (white) (5) *Padma* (pink)
4 *Gandha*-Smell—2 kinds	(1) *Sugandha* (sweet smelling) (2) *Dur-gandha* (bad-smelling)
5 *Śabda*--Sound--7 kinds	(1) *Sadja* (2) *Rsabha* (3) *Gāndhāra*, (4) *Madhyama* (5) *Pañcama*, (6) *Dhaivata* (7) *Nisādha* i e the *Do*, *re* *me*, *fa*, *sol*, *la*, *si*

These are 27 which can be combined in various ways

Note In rational beings, mind also assists the senses in bringing knowledge to the soul

ways There are two varieties of combination of tones difference tones and summation tones The difference tones were discovered by the celebrated Italian violinist, Tartini Summation tones were discovered after the Helmholtz researches, in 1856 A D A difference tone has a pitch determined by the difference between the frequencies of the two other tones The pitch of the summation tones results from the addition of frequencies The study of the combination of tones and beats has

led to research in auditory harmony In the case of sound researches, Spearman says that a distinction has been drawn between noise and tone[43] A detailed classification of the Jaina view of sense qualities is shown in Table VI

Thus, the analysis of sense qualities given by the ancient Jainas has not been arbitrary It has a great psychological significance, although it has no basis in scientific and experimental research However, it can be said with confidence that the Jaina analysis of sense qualities shows a good deal of psychological significance, and has shown very deep and clear rational insight The conclusions drawn by these philosophers may not be adequate and not agree with the modern views of scientists who have worked out the same problems through experimental research in laboratories It may be noted that there is not either much agreement among modern scientists as to the detailed analysis of sense qualities like colour, sound, smell and taste, although there is a fair agreement on the fundamentals The same measure of agreement can be found in the views of the Jaina philosophers In fact, the views presented by the Jaina philosophers on the problem of sense qualities very much agree with the views of other Indian philosophers of ancient times We find this in a description of sense qualities given by the *Naiyāyikas* It is needless to say that the psychological significance of the analysis of sense qualities given by the Jainas purely through rational insight and not on the basis of experimental research, cannot be ignored

43 Spearman (C) *Psychology Down the Ages*, Vol I, p 200

CHAPTER V

THE JAINA THEORY OF SENSE PERCEPTION

The Jainas have made a significant contribution to the theory of sense perception. In order to understand the Jaina theory of sense perception it is necessary to study their epistemology.

The Jaina attitude is empirical and realistic. The Upaniṣadic philosophers found the *immutable reality* behind the world of experience. Goutama, the Buddha, denounced everything as fleeting and full of sorrow. Mahāvīra stood on commonsense and experience and found no contradiction between permanence and change. The Jaina philosophy is based on logic and experience. *Mokṣa* is the ultimate aim of life. It is realized by the three-fold path of right intuition, right knowledge and right conduct.[1] Right knowledge is one of the major problems of Jaina philosophy. It is necessary to understand the Jaina theory of knowledge and experience for the proper understanding of Jaina thought. The Jaina epistemology is very complex and developed gradually in response to the demands of time.

The *Āgama* theory of knowledge is very old and probably originated in the pre-Mahāvīra period.[2] *Jñāna pravāda* formed a part of the *Pūrvaśruta* which formed a part of the ancient literature. Jinabhadra, in his *Viśeṣāvaśyakabhāṣya*, quotes a *pūrva gāthā* on *jñāna*.[3] There seems to have been no difference of opinion between the followers of Pārśva and Mahāvīra regarding the division of knowledge. Both of them accept the five-fold distinction of knowledge. The *Āgamas* have also presented the five divisions of knowledge.

Knowledge is inherent in the soul, but owing to perversity of attitude arising out of the veil of *karma*, we may get wrong knowledge, *ajñāna*. Knowledge is perferct when the veil of *karma* is totally removed. It is imperfect even when there is partial subsidence or destruction of *karma*. The soul can get perfect knowledge directly when the veil of *karma* is removed. That is *pratyakṣa jñāna*. But empirical knowledge, experience of this world, is possible with the help of the sense organs indirectly. Such knowledge was called *parokṣa jñāna*. *Matijñāna* (sense experience), and *śrutajñāna* (knowledge due to verbal communication), are *parokṣa jñāna*, while *avadhi* (extra-sensory perception), *manaḥparyāya* (telepathy), and *kevala jñāna* (omniscience), were called *pratyakṣa*.[4] But

1 *Tattvārthādhigamasūtra* I

2 Tatia (N.) *Studies in Jaina Philosophy* p. 27

3 *Viśeṣāvaśyakabhāṣya* 121

4 *Sthānāngasūtra* II. I. 7

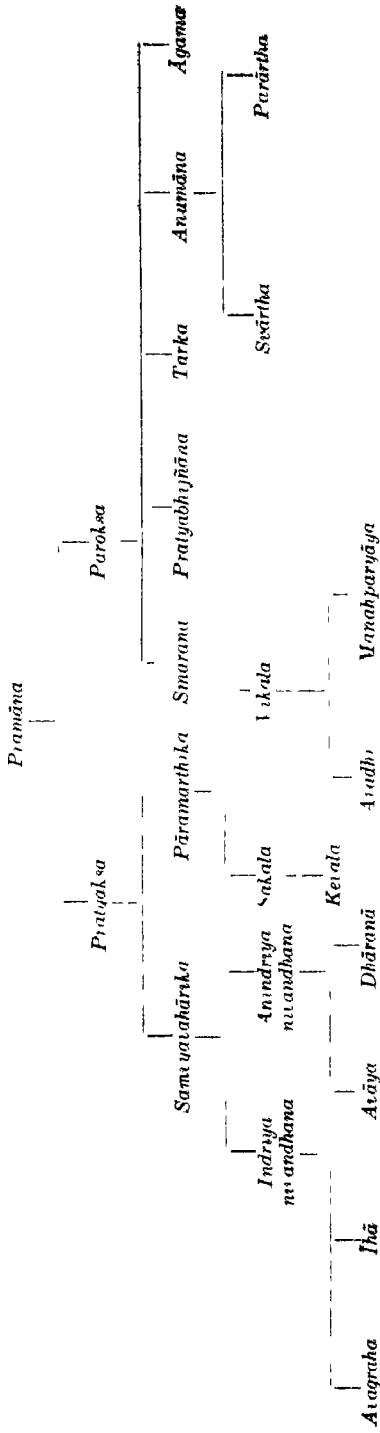
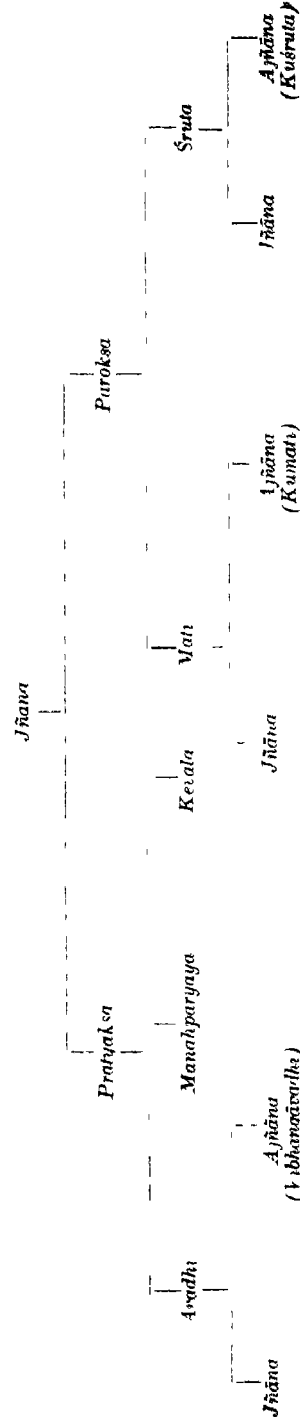



TABLE No. VII (A)

TABLE No. VII (B)

Note This is based on the analysis given by S C Ghoshal in his edition of *Dravyasamgraha*

later, in order to bring the Jaina theory of knowledge in line with the theories of other systems of Indian thought, they modified their conception of *pratyaksa* and *paroksa jñāna* In the *Anuyogadvāra Sūtra*, we find a change in terminology *Mati* and *śruta* began to be called *pratyaksa* as they were possible through the operation of the sense organs Jinabhadra calls the two *samvyavahāra pratyaksa* [5] Alongside of *jñāna*, we have direct intuition of the object It is *darśana* *Darśana* has similar subdivisions In the same way, wrong knowledge is also possible in those cases where the veil of *karma* is not removed and where there is perversity of attitude Thus, we have *mati-ajñāna*, *śruta-ajñāna*, and *avadhi-ajñāna* The general classification of knowledge and intuition mentioning their perversities, is shown in Table VII This classification shows that the Jainas believed that the subsidence and destruction of the veil of *karma* is a necessary condition of knowledge and intuition Wrong knowledge is characterized as *samśaya* (doubt), *viparyāya* (perversity), and *anadhyavasāya* (wrong knowledge caused by carelessness and indifference) Owing to the lack of discrimination between thereal and the unreal, the soul with wrong knowledge, like the lunatic, knows things according to its own whims Perversity of attitude veils the faculty of perception and knowledge, and knowledge becomes vitiated It becomes *ajñāna* [6]

Pratyaksa

We may now consider sense perception or *pratyaksa jñāna* as the *Nandisūtra* calls it It is knowledge obtained through the operation of the sense organs and the *manas* It was called *paroksa* by Umāsvāti Jinabdhara called it *samvyavahāra pratyaksa* It is also called *indriya pratyaksa* [7] In the *Nandisūtra*, a distinction is made within *pratyaksa*, between perception (*indriya pratyaksa*), and perception not due to the sense organs (*unindriya pratyaksa*) [8] Hemacandra describes in the *Pramānamīmāmsā* that *pratyaksa* is that which is immediate, clear and unambiguous He analyses the various definitions of *pratyaksa* of other schools and shows that they are not adequate The Naiyāyika definition of perception as unerring cognition which is produced by the sense object contact is not adequate How can the sense object contact and the like, he asks, which is not of the nature of cognition, function as efficient instrument for the determination of the object? The Buddhists have given a definition of perceptual cognition as that which is free from conceptual construction and is not erroneous

5 *Tattvārthasūtra* I 9—12 *Anuyogadvāra Sūtra* p 194 *Nandisūtra* 4
6 *Ibid* 32 *Pañcāstikāyasāra* 47
7 *Viśeṣāvaśyakabhāṣya* 95 *Nandisūtra*
8 *Nandisūtra* For this discussion also refer to *Tattvārtha Sūtra* I II and its *Bhāṣya*

But Hemacandra says that this definition is irrational since it has no bearing on practical activity It has no pragmatic value Jaimini defines perception as that which is engendered in the mind of a person upon the actual contact of the sense organ with the object This definition is also too wide, since it overlaps such cognition, as doubt and illusions also occur as a result of sense contact The older exponents of the Sāmkhya school define perceptual cognition to be modification of the sense organs such as the organ of hearing But sense organs are devoid of conciousness, therefore, their modifications cannot be conscious If, on the other hand, it is assumed to derive its conscient character from its association with a conscious principle like the *self*, then the status of the organ of knowledge should be accorded to the *self* Therefore, Hemacandra said, perceptual cognition is immediate and lucid [9]

It is not possible that sense perception, which is based upon the stimulation present to the senses, is incapable of knowing the cognitions that preceded and that follow Even in the case of cognitions arising out of the data present to the senses, the cognitions would be only subjective It would not be possible to determine their validity or invalidity to the satisfaction of an outsider It would be difficult to establish objective validity, hence sense perception is one of the sources of knowledge, and not the only source as the Cārvākas would maintain

In Plato s dialogue, *Theaetetus*, Socrates examines the doctrine that knowledge is through perception This is the position of the common notion that knowledge of the external world comes to us through the senses Socrates points out that the view of Theaetetus is identical with the doctrine of Heracleitus that all things are in motion, and the Protagorean dictum, *homo mensura* Socrates in the end shows that the position adopted by Theaetetus is not acceptable because it leads to an impossibility Socrates said that, if knowledge and perception are the same, it leads to an impossibility, because a man who has come to know a thing and still remembers it does not know it, since he does not see it, and that would be a monstrous conclusion [10]

Pratyaksa is defined in the *Pramānamīmāmsā* as that which is immediate and lucid These characteristics are applicable to both perceptual and non-perceptual experience, experience through operation of the sense organs and experience without the help of sense organs We have seen that in the *Nandisūtra* a distinction is made between *pratyaksa* as that which is due to the sense organs, and that which does not need the mediation of the sense organs They are called *indriya pratyaksa* and *anindriya pratyaksa*, respectively. *Indriya pratyaksa* is cognition which is immediate and direct and arises out of the operation of the five sense organs There are, therefore, five types

9 *Pramānamīmāmsa*, I 1 29 and its commentary
10 *Theaetetus* 164 B

of sense perception—the visual, auditory, tactual, olfactory and gustatory The experience that does not need the sense organs and is immediate may be called extra-sensory perception It is also *pratyaksa*, because it is immediate and direct This was called real *(pratyaksa)*, by the followers of *Āgama* literature It is of three types, *avadhi*, *manahparyāya* and *kevala pratyaksa* In this chapter, discussion will be restricted to the sense experience, *indriya pratyaksa* It is also called, as was seen earlier, *samvyavahāra pratyaksa* Emperical knowledge may be called *samvyavahāra pratyaksha* It is of two kinds, *mati* and *śruta* *Matijñāna* is a species of *Samvyavahāra pratyaksa* *Matijñāna* is defined as knowledge due to the sense organs and mind *Indriya pratyaksa* may, therefore, be regarded as a form of *matijñāna* This may be called sense perception Sense perception may be regarded as *matijñāna*, as it is concerned with the contact of the sense organs with the object Sense perception of this type may be compared with the definition of *pratyaksa* given by Gautama, the founder of Nyāya philosophy, already referred to Gautama defines *pratyaksa* as knowledge which arises out of the contact of sense organs with its object, inexpressible in words, unerring and well-defined [11] Gangeśa says that this does not include intuitive perception, which is also direct and without mediation of the senses [12] The Jainas called the type of perception defined by Gautama a form of *matijñāna* In the Jaina *Āgamas*, *matijñāna* is also known as *ābhinibodhika-jñāna* [13] But the term *matijñāna* seems to be older than *ābhinibodhika-jñāna*, as *matijñāna* is associated with the *karma* theory which is very old [14] The old Jaina thinkers thought that knowledge born with the help of the five senses as well as the *manas* may be called *matijñāna* But in *indriya pratyaksa* they included knowledge born of the five sense organs, as the mind is not for them exactly a sense organ It is a quasi-sense organ

In Jaina literature various synonyms for *matijñāna* have been mentioned *Tattvārthasūtra* mentions *mati*, *smrti* (recollection), *cintā* (thought), and *ābhinibodha* (perceptual cognition), as synonyms [15] Bhadrabāhu mentions *īhā* associative integration, *apoha*, *vimarśa*, *mārganā* *gavesanā*, *samjñā* and *smrti* as synonyms [16] *Nandisūtra* follows Badrabāhu The mention of all these synonyms does not mean that they identified the various forms of cognition mentioned in the synonyms as sense perception, because Bhadrabāhu and Umāsvāti, for instance, would not in the least have meant that *smrti* is identical

11 *Nyayasutra* 1 1 4
12 *Tattvacintāmani* p 552
13 *Dasavaikalika Niryukti* Gāthā 49-60
14 Tatia (N) *Studies in Jaina Philosophy* p 27
15 *Tattvārthasutra* I 13
16 *Viśesavasyakabhasya* 396

with sense perception, nor *cintā* identical with *matijñāna* However, what they meant was that, in empirical experience, we find *matijñāna* and such experience as recollection and thought In this sense, *matijñāna* may be said to include sense experience due to the operation of the five senses and experience through the *manas*, as the Jaina philosophers following the *Āgamic* literature maintained In the *Pramānamīmāmsā*, empirical perception is described as perception due to the senses and mind In the commentary of the same stanza it is said that the phrase 'due to the sense and mind', (*indriya manonimittam*), has both collective and distributive meaning [17] But *matijñāna*, in the sense of experience due to the five sense organs, is a form of *pratyaksa* It is *indriya pratyaksa* Umāsvāti also includes experience due to the mind in *matijñāna* He defines *matijñāna* as knowledge caused by the senses and mind, since mind is a quasi-sense, *no-indriya* [18] The commentator Siddhasenaganin mentions three types of *mati* (i) knowledge born of the sense organs, (ii) knowledge born of the mind, and (iii) knowledge due to the joint activity of the sense organs and mind [19] However, from the *Bhāsya* of the *Tattvārthasūtra* we find that *matijñāna* can be distinguished into four types, as (i) knowledge due to sense organs, like sense perception, (ii) knowledge due to the mind only, like *cintā*, (iii) knowledge due to the joint activity of the mind and the senses Memory and recognition can be included in *matijñāna* Akalanka says that memory, recognition and discursive thought are cases of *matijñāna* so long as they are not associated with language As soon as they are associated with words they become *śruta-jñāna*, although very few philosophers have supported Akalanka in this respect [20] However, if *matijñāna* were to include cognition due to the joint activity of the sense organs and the mind, memory and recognition may well be included in *matijñāna* In the fourth stage of *matijñāna*, cognitions without the help of the sense organs and the mind are included For instance, the vague and primitive awareness of the plant life and the instinctive awareness of the lower organisms which have not yet developed sense organs, may be said to be cognition of this type These are direct forms of awareness Sense perception (*indriya-pratyaksa*), as a species of *matijñāna* is of five types based on the nature and function of the five sense organs [21] The five senses possess the capacity of sense experience because the cognition of the stimulation must be conditioned by the relevant instruments The sense is the mark which denotes that cognition of the object has been generated by the *self* We get a similar description

17 *Pramānamīmāmsā*, 20 and commentary
18 *Tattvārthasūtra* I 14
19 *Tattvārtha Tīkā*, I 14
20 *Laghiyastraya* 10 11
21 *Pramānamīmāmsā*, 21 and commentary

of sense perception in the *Nyāya Sūtra* The five types of sense perception are based on the special characteristics of knowledge, (*buddhi lakṣana*), visual, auditory, olfactory, gustatory and tactual The senses consist of elements endowed with a special quality, and so they are able to perceive the respective objects and not themselves For instance, the eye sees the external object and not itself[22] In sense perception, it was seen in the last chapter, the sense of touch is fundamental Similarly, the sense of sight is vital for human life Price says that the experiences of seeing and touching are primary, other modes of sense experiences, like hearing and smelling, are only auxiliary 'If we possessed them but did not possess either sight or touch we should have no belief about the material world at all, and should lack even the very conception of it'[23] It was also seen in the last chapter that, according to the Jainas, the sense of sight is of a fundamentally different nature, in that the other sense organs are based on the contact of the sense organs with the object, while the sense of sight does not need any contact with the object

The nature of sense perception will now be analysed The task here is to give a psychological analysis of the experience, if possible It may aptly be said that the Jaina analysis of sense perception has a great psychological significance, although perception was a logical and metaphysical problem for the Jainas as for other Indian philosophers In fact, even in the West, philosophers were first busy with the logical and the metaphysical analysis of the problem of perception, but with the advancement of psychology as a sceience, philosophers have realized that perception is more a problem for psychology Bertrand Russell says that, 'the problem of perception has troubled philosophers from a very early date My own belief is that the problem is scientific, not philosophical, or, rather, no longer philosophical[24]

Conditions of Perception

Sense organs are a condition of sense perception *Indriyas* are the instruments by which we get sensory experience The senses are the marks of the *self*, and they afford proof of the existence of the *self* The senses are instruments like the carpenter s axe, by which experience is obtained by the *self*[25] The contact of the sense organs with the object is a condition of perception as mentioned by the Naiyāyikas,[26] although, according to the Jainas, such a contact is not necessary in the

22 *Nyāya Sūtra* III 1 68-69

23 Price (H H) *Perception* Ch I p 4

24 What is mind? Article by B Russell in the *Journal of Philosophy*, Vol LV No 1, p 9 Jan 2 1958

25 *Pramāṇamimāmsā* 21 and commentary

26 *Nyāya Sūtra* III 1 68-69 *Indriyartha sannikarsam*

case of visual experience According to the Nyāya definition, perception involves defferent factors, viz, (i) sense organs, (ii) their objects, (iii) the contact of the sense organs with the object, and (iv) the cognition produced by them. It is sometimes maintained that the description given by the Jainas of sense experience as cognition due to the senses and the mind is inadequate Visual perception, for instance, has the additional condition of the presence of light But it has been pointed out by Hemacandra that objects and light are not conditions of experience, because of lack of concomitance between the two [27] But it is not denied that they are remote conditions like time and space, which subserve the subsidence and destruction of the knowledge-obscuring *karmas* They are indirectly useful to the visual organs, like collyrium The inadequacy of the view that the object and light are conditions of perception can be seen from the fact that illusive perception of water takes place in a mirage Cats and owls perceive in the dark, where the stimulation of light is absent [28] This is meant to show that the Nyāya emphasis on the object as a condition of perception is not acceptable Perception of a particular object is, in fact, according to the Jainas, due to the destruction and subsidence of the relevant knowledge-obscuring *karmas*, *jñānāvaranīya karma* This implies a psychological factor An appropriate psychical condition in the destruction and subsidence of knowledge-obscuring *karma* is a necessary factor in the perceptual experience It also depends on the competency of the appropriate psychical factor For instance, even when the object is present we may not see it when our attention is elsewhere engaged In the *Samavasāra* we read that the presence of stimuli in the external environment and even their coming into contact with the sense organs may not be effective to produce the relevant experience For instance, we may not see an unpleasant visual form even though the stimulation may reach the eyes The psychic factor of selective attention is needed before we get the sense experience This is possible when all psychic impediments are partially or wholly removed through the destruction and subsidence of knowledge-obscuring *karma* [29] We have described such a psychic factor as a mental set which is necessary for the perceptual experience Emphasis on the mental factor in perception has been mentioned in the *Upanisads* also This was referred to in the earlier chapter We here have the dictum that when the mind is elsewhere we do not see 'I was absent in mind, I did not hear' [30] In Western thought, Aristotle was clearly aware that perception is not possible merely through the sense organs For him, perception consists in being moved and affected Sense perception does

27 *Pramāṇamīmāmsā* I, 25 *Nārthālokau jñānasya nimittam avyatirekāt*

28 *Ibid* and commentary

29 *Samayasāra*, 376-382

30 *Bṛhadāraṇyaka Upaniṣad* III, I, 4

not arise from the senses themselves, as organs of sense perception are potentiality and not actuality[31] Locke writes that, whatever alterations are made in the body, if they reach not the mind, whatever impressions are made in the outward part, if they are not taken notice of within, there is no perception For we may burn our body with no other effect than it does a billet unless the motion be continued to the brain, and there the sense of hurt or idea of pain be produced in the mind, wherein consists actual perception[32] In modern psychology, Prof Woodworth gives a formula 'W-S-O-R-W' for explaining the fascinating problem of how an individual perceives an objective fact At any given moment a man is set for the present situation He might be listening to a low hum just as a smooth tone But if he tries to make out what the sound can be, he is more likely to perceive it as the hum of an aeroplane[33]

Thus we find that the analysis of perceptual experience shows that the sense organs and the contact of the sense organs with the stimulations of objects are no doubt conditions of perception But that alone is not sufficient A psychological condition is necessary for the experience This psychological factor consists, negatively, in the removal of the psychic impediments to perception This may be likened to the subsidence and destruction of the knowledge-obscuring *karmas* of the Jainas On the positive side, the psychic condition is selective attention and the 'mental set'

Stages of Sense Perception

According to the Jainas, sense perception can be analysed into four stages as (i) *Avagraha*, (ii) *Īhā*, (iii) *Avāya*, and (iv) *Dhāraṇā*[34] These stages of sense experience arise through the operation of the sense organs and the mind In the *Pramāṇamīmāṃsā* we get a description of the four stages of sense experience, *saṃvyavahāra pratyakṣa* The four stages mentioned above have been usually described as the four sub-divisions of sense experience In the *Nandi Sūtra*, they are mentioned as four types, *caturvidha*[35] But it would be more appropriate to say that they are the four stages of sense experience, because, psychologically analysed, they express the four stages of perceptual cognition, although perception, in our view, is a concrete psychosis The correctness of this interpretation can be seen from the fact that in the commentary on *sūtra 20* of the *Pramāṇamīmāṃsā* it is stated that the earlier form, like *avagraha*, develops into the subsequent forms and all of them

31 *Aristotle's Psychology*
32 Locke (John) *An Essay concerning Human Understanding* Ch IX Perception
33 Woodworth (R S) *Psychology A Study of Mental Life* p 403
34 *Tattvārthasutra*, I 5
35 *Nandisūtra* 26

partake of the same essential nature[36] Thus, in the Jaina thought, four stages of *matijñāna*, as mentioned above, have been described[37] *Avagraha* refers to the first simple and primitive stage of experience This may be said to be merely the stage of sensation Next comes *īhā* In this stage there is a mental element, and it refers to the integrative factors of the mind In the third stage, we get a clear and decisive cognition of the object This is *avāya* It implies the presence of the inferential element in perception *Dhāraṇā* is retention of what is already experienced in the perceptual cognition In fact, it is not actually a stage of perceptual experience although it is included in perceptual experience

Psychologists point out that perception is not a simple process nor is it merely the sense-datum It consists in the organization and interpretation of sensations It is knowledge about' and not merely 'knowledge of acquaintance', as William James said Perception involves certain psychological factors like association, discrimination, integration, assimilation and recognition Perception also involves inference We perceive a table, and when we perceive the object as a table we recognize it and we get a defined picture of the object As Angell said, perception is a synthetic process, and the combination of the new and the old is an essential part of the synthesis This process of combining was often called, by early psychologists, 'apperception' This problem will be referred to later Structural psychologists like Wundt and Titchner analysed perception into sensations They said that perceptions combine and fuse together a number of sensory elements as in the process of forming H_2O It is not merely a sum of sensations It gives a new psychological product, a creative synthesis, like the mental chemistry of J S Mill Later, the Gestalt psychologists gave a new turn to the psychology of perception They hold that every perceptual experience is an unanalysed whole, it has a quality of its own Thus, we find that perceptual experience is not a simple unit although it is a whole and unanalysed experience In the *Pramānamīmāmsā* there is a statement that different stages of perceptual experience are essentially of the same nature The Jaina philosophers were concerned with giving a logical and epistemological analysis of the perceptual experience Therefore, they were more interested in giving the conditions and the stages of knowledge However, their discussion of the problem has given a psychological picture of perception in terms of logical analysis It is difficult to find the acumen of present-day psychological analysis in the writings of the ancient philosophers Moreover, we may remember that their knowledge and equipment of psychology were very meagre They had no experimental basis Their analysis was more on the basis of logic,

36 *Pramānmımāmsā* I 1 20 and commentary
37 *Dravyasamgraha*, Edited by Ghosal, p 12

of common sense and on insight, and yet, the stages of perception mentioned by the Jaina philosophers very much correspond to the analysis of perception given by the traditional psychology and the structuralist school

***Avagraha*—Sensation**

Avagraha is the first stage of sense experience It may be said to be analogous to sensation It is the level of sensation in which perceptual experience can be analysed Umāsvāti defines *avagraha* as implicit awareness of the object of sense He says that *grahana* (grasping), *ālocanā* (holding), and *avadhāranā* (prehending), are synonyms of *avagraha*[38] It is indeterminate The object presented through sense stimulation is cognized in an undefined and indeterminate way In this stage, we are merely aware of the presence of the object without any asssociation, without cognizing the specific features, and in fact without even being aware of its association and name[39] In the *Avaśyaka-Niryukti*, *avagraha* has been defined as awareness of the sense data[40] Jinabhadra insists that *avagraha* is indeterminate in its character He is not prepared to consider that it has reference to any specific features of the object, because even relative reference is enough to promote the experience to the stage of *avāya* Then *avāya* becomes a higher stage, and the stage of *avāya* will not be necessary or possible once the cognition of specific features is admitted in the case of *avagraha* It would lead to an endless series, because cognition of the particular is relative to the state of knowledge, and it would increase as knowledge increases It is not possible to ascertain all the particulars of an object even in a long time It is, therefore, more appropriate to say that *avagraha* is mere awareness, mere cognition of an object without the knowledge of the specific nature of the object nor of its name[41] *Nandisūtra* does not define *avagraha* It gives the implications of the definition of *avagraha* as given in the *Avaśvaka-Niryukti* and describes it as cognition of sense—data It gives illustrations It also gives *avagrahanatā*, *upadhāranatā*, *śravanatā*, *avalambanatā* and *medhā* as its synonyms[42] But some Jaina logicians, like Pūjyapāda Dēvanandi, Akalanka, Vidyānandi and Hēmacandra, have said that *avagraha* is determinate cognition Pūjyapāda Dēvanandi says that, when the sense organ comes in contact with an object, there is intuitive apprehension (*darśana*) After that, we get cognition of the object, which is of specific nature This is *avagraha*[43] For instance, we cognize white colour with our eyes 'it is white' In this sense, the intuitive apprehension

38 *Tattvārthasūtra Bhasya*, I 15
39 *Ibid*
40 *Āvaśyaka Niryukti* 3
41 *Viśeṣāvaśyakabhāṣya*, 25 5 6
42 *Nandi Sūtra*, 30
43 *Sarvārthasiddhi* 1 15

(*darśana*), becomes the first stage of sense experience It will be indeterminate It will be a species of *jñāna* It has already been mentioned in this connection that *darśana* cannot be identified with the primitive and early stages of sense experience In that case, we could not have the highest stage of *darśana*, like *kevala darśana* Akalanka defines *avagraha* as a determinate cognition of the distinctive nature of the object It comes after the intuitive apprehension which is due to the contact of the sense organs with the object[44] With the contact of the sense organs with the object, there arises 'intuition of the bare existence' of the object, *sanmātra darśanam* This intuitive apprehension develops into the determinate cognition of the object That is *avagraha* According to Hemacandra *avagraha* is a determinate perception which follows the indeterminate intuition through the contact of the sense organs with the object Indeterminate intuitive experience is *darśana* It does not grasp the specific characteristics of the object This *darśana* transforms itself into a determinate cognition, which is *avagraha*[45] But this *avagraha* is not a mental construction,[46] because it depends on the active exercise of the sense organs like the visual, and also because it cannot be corrected by discursive thought Therefore, it is still immediate and direct experience based on the contact of the sense organs with the object Similarly, Vidyānandi and Vādi-devasūri make *avagraha* determinate cognition

However, it would be difficult to make *avagraha* determinate cognition as coming after *darśana*, which is indeterminate and due to the contact of the sense organs and the object, as these logicians have described In that case, as we have said earlier, *darśana* will become a mere species of *jñāna* and will be reduced to the level of mere sensation The higher forms of *darśana*, like *kevala darśana*, would be meaningless because there would be no higher form of *darśana* All *darśana* will be reduced to the sensational level But we find that the higher forms of *darśana* have been accepted It would, therefore, be more appropriate to treat *darśana* as a separate type of experience, in the sense of intuitive experience, and *avagraha* as the first stage of *jñāna* It is really the sensational stage, where there is mere awareness of the existence, without the cognition of the specific features, of the object

Sensations, as William James said, are the first things in consciousness This does not mean that all our experience is only fusing and compounding of sensations Our experience can be analysed into sensations, and these form the elements of our sensory experience As Stout says, sensations are of the nature of immediate experience, like the experience of cold and warm, a specific tinge of pain, or a

44 *Laghīyastraya* 5

45 *Prmānamīmāmsā*, I 1, 26

46 *Ibid* *Na cāyam mānaso vikalpah*

touch located in the body or at the surface of the body The term sensation is also extended to cover the visual data, sound, taste, and smell which may enter into immediate experience Sensations vary not only with the variations in the presented objects but also in accordance with the state of the bodily organs They are private and immediate experiences of the individual[47] Sensations are aboriginal and without precedent, a mental first cause, uncaused by antecedent mental events and inexplicable in strictly psychological terms They are a first beginning of the knowledge, and the ultimate source upon which all empirical cognition rests[48] Further, sensations are simply given rather than made They are 'impressions' which the mind passively receives They constitute, as Lewis says, a content of experience "which we do not invent and cannot have as we will, but merely find'[49] During the period of two hundred years between the publication of Locke's *Essay* and of James's *Principles*, two further characteristics, now largely of antiquarian interest, were gradually attributed to sensation Sensations were held to be the simple elements of which complex ideas are formed, as well as the matter or crude stuff out of which the associative machinery fashions the organized and meaningful world of everyday experience[50]

In this sense we can say that *avagraha* is the stage of sensation It is the first stage of experience It is the given It does not involve the stage of *darśana*, which is qualitatively different from *jñāna* *Avagraha* is a species of *jñāna* Therefore, we describe *avagraha* as the immediate experience It is sensation

Stages in *Avagraha*

Avagraha has been identified by us with sensation, the immediacy of experience It is bare awareness of the existence of the object without any determination of its specific features This fact becomes clear if we remember that *avagraha* has been further distinguished into two stages (i) *vyañjanāvagraha* and *arthāvagraha*[51] *Vyañjanāvagraha* is the earlier stage It is a physiological stimulus condition of the sensation, of the immediate experience In the *Viśeṣāvaśyaka Bhāṣya* we get a description of *vyañjanāvagraha* There it is said that what reveals an object, as a lamp reveals a jar, is *vyañjanāvagraha* It is only the relation of the sense organ and the object in the form of sense stimulation such as sound[52] In the *Nandisūtra*, we get an example of the earthen

47 Stout (G F) *Manual of Psychology* p 123

48 *Sense datum theory and observational fact* Some contributions of Psychology to Epistemology *Journal of Philosophy* Jan 1958

49 Article in the *Journal of Philosophy* Jan 2 1958 by Charles F Wallraff

50 *Ibid*

51 *Tattvarthasūtra* I 17—18 *Arthasya vyañjanāvagrahah*

52 *Viśeṣāvaśyakabhāṣya*, 191 193

pot and drops of water, *mallaka dṛṣṭānta* It gives a description of the stage of *vyañjanāvagraha* A clay pot is to be filled with water In the beginning, when a person pours out one drop of water, it is absorbed and there is no sign of existence of water He goes on pouring drops of water and at a certain stage a drop of water will be visible Then the water begins to accumulate We may call this stage when the water becomes visible the 'threshold of saturation' The drops of water below the threshold are all absorbed Similarly, a person who is asleep receives sound stimulation successively for sometime The sound atoms reach the ears Innumerable instances have to occur before the ears become full of sound atoms At a particular stage, the person becomes conscious of the sound So far he was not aware of the sound although the auditory stimulation was pouring in We may call this stage of first awareness 'the threshold of awareness' The sensation of sound starts the moment the threshold is crossed and we become aware of the sound That is the immediate experience of sound, *arthāvagraha* So far there was no awareness of the sound although the conditions of stimulation for such awareness were operating below the threshold [53] The stimulus was pouring in constantly although no awareness of sound was possible up to a particular stage Such a preparatory stage of sensation presents physiological and stimulus conditions for the sensational stage It is indeterminate and undefined In fact, it is sometimes contended that it is not consciousness at all Yaśovijaya says that *vyañjanāvagraha* is cognition only in name It is only a condition of *arthāvagraha*, which is cognition [54] However, the presence of consciousness in *vyañjanāvagraha* may be admitted, although it is not explicit because of its undeveloped existence [55] In this, the awareness is implicit It may be referred to as potentiality of awareness In this sense *vyañjanāvagraha* is not totally unconscious, because it is this that develops into consciousness [56] It is not possible for man to be clearly aware of all the contents in his mind even when he is wide awake Countless points of consciousness emerge in the course of a single day *Vyañjanāvagraha* has been just described as implicit awareness, the physiological and stimulus condition of awareness It gradually develops into awareness and gives the sensation It is very often described as 'contact awareness' However, it would not be appropriate to call this 'awareness' although there is the stimulation flowing in Awareness gradually emerges later, through the accumulation of stimulation It is merely potentiality of awareness, or implicit awareness

Such a stage of potential conciousness may be compared to the unconcious experiences described by Stout The question of

53 *Nandisūtra*, 34 *Mallaka dṛṣṭānta*
54 *Jaina Tarka Bhāṣā* p 3
55 *Viśeṣāvaśyakabhāṣya* 196
56 *Viśeṣāvaśyakabhāṣya*, 196

unconscious mental states relates to the possibility of there being experiences which may be ours but of which we cannot become aware directly There are feelings and sensations which do not enter into the stream of our mental life so as to be open to direct observation at the time at which they occur[57] Leibnitz has also spoken of unconscious mental states, 'petites perceptions' Leibnitz's doctrine of 'petites perceptions' enables him to understand how things may be in the mind in an undeveloped way even when we do not seem to be conscious of it He agrees with Locke that sensations come first[58] But the unconscious mental states and the 'petites perceptions' imply the presence of a certain experience of which we are not directly aware If we can know of them at all, as Stout says, we can only do so in the way in which we can come to know the mental dispositions, or as we come to know of mental states in the lower animals In this sense, although we have compared *vyañjanāvagraha* to the unconscious mental states of Stout and Leibnitz, we cannot say that they are identical It is true that there is a remote likeness, but they cannot be similar to each other, because the unconsious mental states of Stout do not accumulate and gradually emerge into consciousness They are there but cannot be directly observed

We may take the analogy of the psychological investigations of the Western psychologists in their attempt to measure the intensity of felt sensation Weber carried on experiments in the direction of measuring the felt difference in the intensity of the sensation He found that in comparing objects and observing the distinction between them, 'we perceive not the difference between the objects but the ratio of this difference to the magnitude of the object compared'[59] If we are comparing by touch two weights, the one of thirty and other of twenty-nine and a half ounces, the difference is not more easily perceived than that between weights of thirty and twenty-nine drachms Similar observations can be made about the sense of sight The difference in the intensity of light is discernible when the ratio of the original stimulus to the increased stimulus is 100 101 Weber said that, in addition, not the absolute difference between the vibration of two tones but the relative difference compared with the number of vibrations of the tones, is discriminated The original stimulus, whatever its absolute intensity may be, must be increased by a certain constant fraction of its own amount, before any unlikeness in the sensation is discernible, before 'the threshold of discernment is passed The constant fraction is different for different kinds of sensation The basis of the stimulus consists in the

57 Stout (G F) *Manual of Psychology* p 28

58 Rogers (A K) *A Students' History of Philosophy* p 320

59 *Weber's Law* as formulated by him in a monograph entitled *Detactu* (1834) See also *Weber Fechner Law* as stated by Fechner in *Elements of Psycho physics* (1860) translated from the German, VIII *The Measurement of Sensations*

fact that the awareness of sense experience is possible after 'the threshold of awarenes is reached' This is possible when the stimulus units are accumulated and produce the awareness after the particular stage *Mallaka dṛṣṭānta* gives a picture of such a mental process, although quantitative measurement and the experimental basis were not possible

Arthāvagraha

As soon as a person becomes conscious, the stage of *vyañjanāvagraha* is over and it transforms itself into *arthāvagraha* This may be called the stage of sensation proper It is awareness of the object In the *Nandisūtra*, there is a statement that, in this stage, we are aware of the sound as 'this is sound' or 'colour' or 'touch', but not exactly cognize the nature of the sound, colour or touch [59] But in the *Viśeṣāvaśyakabhāṣya*, this kind of determinate awareness, as 'this is sound' is denied in the stage of sensation It is merely awareness of the occurrence of the cognition, because it lasts only for one moment [60] It is, therefore, indeterminate and indefinite It does not reach the stage of cognition of specific content In the *Viśesāvaśvakabhāsya*, there is a discussion of an opinion of the Jaina thinkers who define *arthāvagraha* with reference to the development of personality It is said that the awareness of a new-born infant is confined to cognition of the general nature only But, as it gradually grows, it gets sufficient experience and acquaintance with the object, and cognizes specific features of the object even in one instant This view is criticized in the *Viśeṣāvaśyakabhāṣya* on the ground that it will lead to an indefinite series of cognitions and that cognition would vary with the extent of the individual's knowledge [61]

On the basis of such a distinction regarding the two stages of *avagraha*, it is stated that *vyañjanāvagraha* lasts for indefinite moments, gradually proceeding towards the level of consciousness [62] The physiological and stimulus conditions of awareness in the form of sensation continue to accumulate for a number of moments till the threshold of awareness is reached But once the stage of awareness in the form of sensation is reached, it lasts only for an instant, which is an indivisible point of time and is infinitesimal

We have seen that Western psychologists, like Stout, describe sensations as something of the nature of immediately experienced warm or cold, a specific tinge of pain, touch located in or at the surface of the body, rather than anything outside Psychologists have extended the term to cover the visual data, the sounds and the smells that may enter

59 *Nandisūtra* 35
60 *Viśeṣāvaśyakabhaṣya* 253
61 *Ibid* 268—269
62 *Nandisūtra*, 35

into immediate experience Stout further says that all recognition of sensation as of a certain kind, and all apprehension of it as continuing to be of the same nature or as changing in nature at different moments, involves a reference beyond this experience For, sensation is immediate experience and nothing more At any one moment there is no other immediate experience except just the experience itself at the moment [63] Sensations are genuine and factual, while mental constructs are spurious and artificial Sensations are new, uncontaminated and untouched by those mental processes which render ideas suspect They are not structured by perception, dimmed and blurred through detention, abridged through forgetting or artificially arranged as a result of fortuitous associations From Hume to Russell, modern empiricism has tended to regard the inchoate beginnings of knowledge in unformed sensation as more authentic than the cognitive refinement which recent enquiry provides [64]

The Jainas have raised another problem regarding the sub-division of the stages in *avagraha*, sensational experience This is based on the problem of contact of the sense organs with the object, the *prāpyakāritva* and *aprāpyakāritva* This problem has been discussed in the last chapter According to the Jainas, the visual sense organ is *aprāpyakāri*, because there is no contact of the sense organ with the object Other sense organs are *prāpyakāri* *Vyañjanāvagraha*, it is maintained, is essentially concerned with the contact of the sense organs with the stimulus coming from the object, gradually giving rise to awareness of the object In this sense, according to the Jainas, there are four types of *vyañjanāvagraha* there being no *vyañjanāvagraha* for the sense of sight The visual sense organ is incompetent to establish direct contact with objects of the external world through the stimulation [65] But, *arthāvagraha* is awareness itself It is of six types - due to the five sense organs and due to the mind which is a quasi-sense organ [66] Thus, according to the Jainas the visual sensation does not require accumulation of the sense stimulus coming from the object It would mean there is no mental state below the 'threshold of awareness'

But it would be difficult to justify the view regarding the visual sense in the light of modern science It may be said that even in the case of the visual sense organ, the light rays have to pass through the lens of the eyes and reach the retina In this sense, there is contact between the sense organ, the eye, and its object, which is illuminated by light

63 Stout (G F) *Manual of Psychology* p 124

64 *Sense—datum theory and observational fact* Some contributions of Psychology to Epistemology Article by Charles F Wallraff, in the *Journal of Philosophy* Jan 2, 1958 p 23

65 *Nandisūtra* 28 and *Viśeṣāvaśyakabhāṣya* 204

66 *Ibid* 29, and *Tattvārthasūtra*

This problem has been discussed in the last chapter. It would, however, not be inappropriate to say that, even in the case of the sense of sight, the physiological and the stimulus conditions are required. *Vyañjanāvagraha* is a necessary stage of *arthāvagraha*. All sensations emerge from the accumulation of the stimulation up to the stage of 'threshold of awareness'. 'Sensation is aroused by the messages which are transmitted through the nerves from the sense organ to the brain, and this is the description of the nature of the sensory message and the way in which it can be recorded and analysed'.[67] If the message from the sense organs is crowded closely, the sensation is intense, and if the message is separated by long intervals, the sensation is feeble. Sensations have an upper and a lower limit. They are 'thresholds'. If the stimuli are not sufficient and fall below the threshold, they do not evoke sense experience. They are called sub-liminal stimuli. The sub-liminal stimuli may accumulate and produce the experience. Western psychologists say that sensations have a latency period. This is the time taken by bodily tissues, physiological factors, before they produce their effect. For instance, it takes a certain length of time to arouse a sense organ and to excite the nerve fibres that lead to the brain. The brain connections, the motor nerves and also the muscles take time.[68]

Arthāvagraha, then, is the real sensational stage, the immediacy of experience, while *vyañjanāvagraha* is a latency stage and the stimulus condition which gradually gives rise to the awareness. However, *arthāvagraha* is also indefinite and not determinate. According to Jinabhadra the consciousness of a person just awakened from sleep and hearing the sound does not take the form 'this is sound', because 'this is sound' is determinate and discursive and requires more than one moment for developing. But, the *arthāvagraha* is awareness of the sound, and it is instantaneous. The cognition 'this is sound' is possible at a later stage, called *avāya*.

Īhā

Cognition of objects in empirical experience is not complete with mere awareness at the sensational stage. In fact, pure sensations are not possible. As Stout says, we have hardly any pure sensations, absolutely devoid of meaning, either original or acquired, except perhaps in the case of children. Therefore, though sensations are not self-subsistent, they do involve mental factors. They have derivative meaning. All recognition of a sensation as of certain kind involves a reference beyond immediate experience. 'Its identity in nature or difference in nature in relation to the past or possible future experiences

67 Adrian (E D) *Basis of Sensation* Preface

68 *Viśeṣāvaśyakabhāṣya* 252

can only be an object of thought transcending the immediacy of sense [69] Sensations transcend the immediacy of experience also because they are inseparably connected with thought They have reference to external objects They mean something beyond themselves For instance, a sensation of red refers to something red or to something which appears red Thus, absolutely pure sensation is not possible It is only an abstraction It always involves some element of meaning or association which makes the experience concrete Sensations have always a derivative meaning

In this sense, our empirical experience will not be complete with *avagraha* *Avagraha* is not self-subsistent It involves meaning and has reference to object *Arthāvagraha*, mere awareness of sensation, lasts only for one instant, and it immediately transforms itself into more specific cognition It brings in *īhā*, a factor involving meaning The next stage in experience, then, is *īhā* In *avagraha*, there is mere awareness of the object In *īhā*, the nature of the object is cognized In *avagraha*, a person simply hears a sound In *īhā*, he cognizes the nature of the sound also [70] In *Tattvārthasūtra Bhāṣya*, we get a description of the factors of experience Sensation cognizes only a part of the object, while *īhā* strives to cognize specific features It strives for cognition of the nature of the object The process of *īhā* continues for a certain period of time, although it never exceeds one *muhūrta* *Nandīsūtra* gives five synonyms of *īhā* *abhoganatā*, *mārganatā*, *gavesanatā* and *vimarśa* [71] Umāsvāti gives synonyms of *īhā* as *ūha*, *tarka*, *vicāranā* and *jijñāsā* [72] Pūjyapāda Devanandi defines *īhā* as striving for understanding the specific character of the object which has been cognized by *avagraha* [73] Jinabhadra says that it is inquiry for the distinctive features of the object [74] Akalanka defines *īhā* similarly [75] Hemacandra says that *īhā* strives for the cognition of the specific details of the object apprehended by sensation [76] *Vyañjanāvagraha* is the potential condition of awareness *Arthāvagraha* is the dawning of awareness *Īhā* is the tendency towards cognizing the specific features of the object *Īhā* has been very often translated as 'speculation' But it would be more appropriate to use the phrase 'associative integration' However, it would be difficult to find out an appropriate phrase for '*īhā*', because the synonyms, like *cintā* and *vimarśa*, mentioned in *Nandīsūtra* and, like *parīkṣā* and *vicāranā*, mentioned by Umāsvāti lead to attribute discursive thinking at this early stage of perceptual cognition What Umāsvāti and

69 Stout (G F) *Manual of Psychology* p 124
70 *Nandīsūtra* 35
71 *Ibid* 31
72 *Tattvārthasūtra Bhāṣya* 115
73 *Sarvārthasiddhi* 115
74 *Viśeṣāvaśyakabhāṣya* 180
75 *Tattvārtharājavārttika* 1 15 2
76 *Pramāṇamīmāṁsā* 127

Nandisūtra meant by using such terms with the content of discursive thinking as synonyms of *īhā*, it is difficult to know We may only say that *īhā* is the first mental association which gives content and coherence to the immediacy of experience in the sensational stage Mere awareness of the sensation is followed by the cognition of specific features of the object It is a striving of the mind towards coherence and integration of the sense impressions In this stage, we get the nature of the object, although it is still in the semi-conceptual stage Thus, *īhā* is a stage in the format on of perceptual experience It brings in associative integration of sensory elements experienced in the stage of sensation It is very often said that perceptual experience involves factors like association and selection of the sense data Perception involves implicit comparison, assimilation, discrimination and integration It involves association We perceive a red rose In this experience, we get the experience of the sensation of red Other characteristics are associated and integrated and then we perceive the object, the red flower At least, that is what the earlier psychologists, especially the Associationists, believed In fact, the Associationists believed that all complex experience can be looked upon as reproduction and association of elementary sensations

The Jainas thought that, as *īhā* is striving for determinate and specific cognition, it is possible to confuse it with doubt, (*samśaya*) But, *īhā* is not to be confused with doubt, although it does involve an element of striving for finding the specific nature of the object Jinabhadra says that the mental state which refers to many conflicting alternatives where it is difficult to make choice, is the state of doubt It is a state which is really nescience, (*ajñāna*) But *īhā* is the mental state in which there is striving for the ascertainment of truth It leads to the acceptance of the true and the avoidance of the untrue [77] Siddhasena Divākara also draws the same line of distinction between *īhā* and *sāmśaya* For instance, on receiving a sense impression of sound, there arises a doubt whether the sound comes from a conch or a horn The mind is driven to consider the specific points of agreement and difference It is perceived as sweet and agreeable This quality is attributed to the sound of the conch and not of the horn This associative integration, and the striving for cognition of the specific nature of the object, is *īhā* According to this interpretation, it appears that doubt is the beginning of *īhā* It arises just before *īhā* takes form In the *Pramānamīmāmsā*, it is said that doubt crops up in the interval between sensation (*avagraha*), and associative integration (*īhā*), even when the object is a matter of habitual perception But the existence of the state of doubt is not easily detected owing to the rapidity of succession of mental events [78] But

77 *Viśeṣāvaśyakabhāṣya* 183—84

78 *Pramānamīmāmsā* I 1 27

with the introduction of doubt as a stage in the process of perceptual experience before *īhā*, the associative integration becomes more difficult to understand from the psychological point of view This has been very often responsible for terming *īhā* as speculation However, we may say that the doubt which intervenes between sensation and *īhā*, which we have called associative integration, is more a logical expediency than a psychological fact The Jaina logicians are concerned with finding a logical sequence and consistency in the problem of the theory of the knowledge, rather than in psychological analysis It is difficult to maintain that *īhā*, in the sense of speculation, is a stage which culminates from doubt or from the comparison of various alternative presentations In this sense, doubt (*saṁśaya*) and speculation (*īhā*) involve an element of discursive thinking which is not possible at this early stage of perceptual experience It would be more appropriate to say that *īhā* is the associative factor It integrates impressions to form a concrete psychosis In the language of the structural psychologists like Wundt and Titchner, such a process of association and integration is a necessary element in perceptual experience, which is a complex experience

Avāya

From the stage of associative integration (*īhā*), we come to the stage of interpretation Sensations are interpreted and a meaning assigned to the sensation That would be perception Sensation is the first impresson of something the meaning of which is not cognized Perception is the interpretation of the sensation, in which the meaning is known William James says it is 'knowledge about' This involves perceptual judgment When we perceive a red rose, our perception involves the cognition, this is red rose The Jainas said that this stage of perceptual judgment is *avāya*, although it is still in the non-verbal stage *Avāya* follows in the wake of *īhā*, associative integration In this stage, we reach a determinate experience The striving for a cognition of the specific nature of the object results in the definite perception of the object *Avaśyakaniryukti* defines *avāya* as determinate cognition[79] In the *Sarvārthasiddhi* we get a description of *avāya* as cognition of the true nature of the object through cognition of its particular characteristics[80] Umāsvāti says that *upagama*, *upanoda*, *apavyādha*, *apeta* and *apagata* are synonyms of *avāya* They mean determinate cognition[81] *Nandisūtra* gives *āvartanatā*, *pratyāvartanatā*, *buddhi*, *vijñāna* as synonyms[82] *Tattvārthasūtra Bhāṣya* describes *avāya*

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79 *Viśeṣāvaśyakabhāṣya* 179
80 *Sarvārthasiddhi* 115
81 *Tattvārthasūtrabhāṣya* 115
82 *Nandisūtra* 32

as the stage of ascertainment of right and exclusion of wrong [83] For instance, on hearing a sound, a person determines that this sound must be of a conch and not of a horn, since it is sweet and not harsh Harshness is the quality of the sound of a horn This type of ascertainment of the existing specific feature of the object is called *avāya* It is perceptual judgment It is expressed in the form of a judgment, as 'this is a sound of a conch', or 'this is a red rose.'

Some Jaina logicians say that *avāya* has only a negative function In this stage of experience there is merely the exclusion of non-existing qualities. They ascribe cognition of the existing quality to a later stage of experience called *dhāranā* Jinabhadra says that such a view is not correct He says that, whether a cognition merely does the negative function of excluding the non-existing qualities, or also does the determination of the existing characteristics, or whether it does both, it is still *avāya* (perceptual judgment) [84] Umāsvāti seems to hold the view mentioned by Jinabhadra Pūjayapāda says that *avāya* cognizes the specific features of the object Therefore, it is determinate cognition Akalanka holds a similar view Vādi-Deva describes *avāya* as a determination of specific features of the object cognized in the stage of *īhā* [85] Hemacandra holds a similar view He says that *avāya* is the final determination of the specific nature of the object cognized by *īhā* *Avāya* has been described in this treatise as perceptual judgment.

Avāya may be compared to the apperception involved in perceptual experience Perception is a complex experience The older psychologists analysed perception as involving apperception Apperception is assimilation of new experiences to old It is involved in all distinct perceptions, and usually in all attentive perceptions When we hear the footsteps of someone coming up the stairs, we are only aware through the sense organ of hearing of a sound of a certain type But that sound is of a particular person who is coming up the stairs, is interpretation based on our previous experience We then get the experience that we hear the footsteps of a person coming up the stairs In this stage, what is fragmentary in our experience is supplemented and expanded, and fitted into a system to form a completed picture

***Dhāranā* (Retention)**

Now we come to the stage of retention, *dhāranā*, in perceptual experience *Nandisūtra* defines retention as the act of retaining a perceptual judgment for a number of instants or innumerable instants It gives *sthāpana* and *pratisthā* as synonyms of *dhāranā* [86] Umāsvāti

83 *Tattvārthasūtrabhāsya* 115

84 *Viśesāvaśyakabhāsya* 187

85 *Pramānanayatattvalokālankāra*, II 9

86 *Nandisūtra*, 35

defines *dhāranā* as final determination of the object, retention of the cognition thus formed, and recognition of the object on future occasions [87] According to Umāsvāti, retention develops through three stages (i) the nature of the object is finally cognized, (ii) the cognition so formed is retained, and (iii) the object is recognized on future occasions *Āvaśyaka-niryukti* defines *dhāranā* as retention [88] Jinabhadra says that retention is the absence of the lapse of perceptual cognition Like Umāsvāti, he also mentions three stages (i) the absence of the lapse of perceptual judgment, (ii) the formation of the mental trace, and (iii) the recollection of the cognition on future occasions In this description, the absence of the lapse, *avicyuti*, (mental trace), *vāsanā*, and recollection (*smrti*), are three stages included in the conception of *dhāranā* Pūjyapāda Devanandi defines *dhāranā* as the condition of the absence of forgetting, in future, of that which has been cognized by *avāya* [89] Akalanka says that it is absence of forgetting what has been cognized by perceptual judgment [90] But some logicians like Vādideva do not accept *dhāranā* as a condition of recall in future *Dhāranā* is a stage of perceptual cognition and cannot last up to the moment of recall They say it is only establishing perception for a certain length of time

Thus, we find that some logicians make *dhāranā* mere retention of perceptual experience, while some others would make it also a condition of recall of that experience at a future time Those who deny that it is a condition of recall say that it cannot be a cause of recall although it is a remote condition of recall, because recall does require retention of an experience Vādideva says that the recollection of an experience is due to a special capacity of the soul, which may be called *samskāra* [91] Hemacandra entirely agrees with Vādideva's interpretation, although he tries to reconcile the two views He says that retention is also a condition of recall [92] Hemacandra says that the condition is only the causal stuff capable of effecting recollection of past experience It is only a mental trace, *samskāra* It is the continued existence of a cognition for a definite or indefinite length of time He further says that the mental trace, or *samskāra*, is a species of cognition, and not different as the Vaiśesikas have stated If it were not cognition, it would not produce recollection, which is cognitive in nature Hemacandra reconciles his view of retention as the condition of recall with the view of retention as the absence of the lapse mentioned in *Viśesavaśvakabhāsya* He says that retention is the absence of the lapse of perception But it is included

87 *Tattvārthasūtrabhāsya* I 15

88 *Viśesāvaśyakabhāsya* 179 *Dhāranam puna dhāranam* 180, *avicuti dhārana tassa*

89 *Sarvārthasiddhi* I 15

90 *Tattvarthārājavartikā* I 15 4

91 *Syādvādaratnakara* II 10

92 *Pramānamimāmsā* I 1 29 *Smrtiheturdhāranā*

in the perceptual judgment *(avāya)* That is why it has not been separately mentioned by him *Avāya*, when it continues for some length of time, may be called retention in the sense of absence of the lapse of experience It may also be said that absence of the lapse is also a condition of recall in the sense in which he defines *dhāranā* Mere perception without the absence of the lapse cannot give rise to recollection Perceptual judgments which are not attended by the reflective mental stage are almost on the level of unattended perception, like a person touching grass in hurried motion And such perceptions are not capable of giving rise to recollection [93]

Hemacandra s description of *avāya* and his analysis of *dhāranā* come nearer to the psychological analysis of perception, specially of the Structuralist school Perception is a concrete experience in which sensations are organized and interpreted Meaning is assigned to sensations Without the factor of meaning or interpretation of the impressions, perception would be impossible Hemacandra's example of the person touching grass in hurried motion shows that 'selective interest' is a necessary condition of perceptual judgment Such experiences would be on the fringe of consciousness, and they would enter into the focus of consciousness only if forced by factors like nearness or selective interest Retention is an important condition of perception In fact, as Stout says, retentiveness is in some form an indispensable condition of mental development Mental development would be impossible unless previous experience left behind its persistent after-effects to influence the mental state in the course of subsequent experience These after-effects are called traces or dispositions Hemacandra called them *samskāra* They are the latent conditions of subsequent experience However, Hemacandra makes them special capacities of the soul Mental traces or dispositions bring us to the problem of memory

However, the analysis of perceptual experience shows that the concrete psychosis involves the accumulation of sense stimuli to produce a cumulative effect It gradually gives rise to awareness, that is, the physiological and stimulus condition of sense awareness That is *vyañjanāvagraha* It gives rise to awareness of the object It is a sensation It is *arthāvagraha* Thus, *avagraha* is a stage of sensation It is a stage of immediate experience in which we are merely aware of the object of stimulation without knowing anything more of the object *Avagraha*, on the whole, is a stage of sensation But, *avagraha* is not without the thought element There can be no pure sensation Sensations always have a derivative meaning for retentiveness and association operate from the very beginning of life A sense impression or image has meaning in so far as it refers to something other than itself, in so far

93 *Pramānamimāmsa*, I 1 29 and commentary

as it enables us to think of the object In experiencing a sensation, an object is brought before the mind The sensation of yellow carries with it the thought of something yellow[94] This leads us to the next stage called *īhā* It is associative integration In this stage of integrative experience, we do not get the full experience of the object in the form of cognition of the determinate nature of the object in its fullness In this, we do not form a judgment In the stage of *avāya*, we get the perceptual judgment In this stage, sense impressions are interpreted, and meaning is attached to the experience We get perceptual judgment in the form 'this is a red rose' The implicit presence of the thought element in sensation gets expression and a concrete experience is formed According to the Jainas, the perceptual experience which they sometimes call *avagraha* in general, needs to be retained Otherwise, it would not be complete Retentiveness is, in some form, an indispenesable condition of mental development Our subsequent experience depends on the capacity to retain the perceptual cognition This capacity of retention differs with different individuals A completed perceptual experience would be possible with all the four stages co-operating This is the concrete psychosis called perception As it was pointed out earlier, it is sometimes referred to as *avagraha* *Īhā*, *avāya* and *dhāraṇā* have already been shown to be cases of *avagraha* But such identification of the other processes with *avagraha* was not universally accepted Jinabhadra says that they are cases of *avagraha* only by courtesy, *upacārena*

The Jainas have given an exhaustive description of the four stages of *avagraha*, perceptual experience, so far discussed Each of them is of six types, as they arise from the five sense organs and the mind Again, *vyañjanāvagraha* is of four types only Thus there would be twenty-eight forms of perceptual cognition Each of the twenty-eight forms, again, is of twelve types according to the nature of the object they can have Therefore, the Jainas have mentioned that there are three-hundred and thirty-six types of sense experience, *matijñāna* or *abhinibodhika-jñāna* This eleborate classification has no psychological significance, although it has logical and mathematical interest The Jaina logicians were fond of fabulous mathematical calculations This is found in their elaborate classification of *karma* as given in the *Gommatasāra Karma Kānda* Glasenapp in his *Doctrine of Karma in Jainism*, has given a detailed analysis of this division The same tendency must have inspired the Jaina logicians to give such an elaborate classification of *avagraha*

94 Stout (G F) *Manual of Psychology* p 193

CHAPTER VI

OTHER SOURCES OF EMPIRICAL KNOWLEDGE

It was seen in the last chapter that the concept of *dhāraṇā* has occupied the attention of the Jaina logicians and that they are not entirely agreed on its function *Dhāraṇā* has been considered as a condition of recollection The psychological analysis of memory shows that retention is a condition of memory, and recollection and recognition are the forms in which memory expresses itself We are, therefore, concerned here with analysing the concept of memory We shall study retention, recollection, and recognition as factors involved in memory

Retention

The Jaina philosophers are not agreed on the function of *dhāraṇā*, retention *Nandisūtra* has mentioned three stages of *dhāraṇā* Umāsvāti has also accepted the three stages They make *dhāraṇā* a condition of recollection, although some logicians, like Vādi-Deva, do not accept this It was mentioned in the last chapter that Hemacandra reconciles the two views regarding the function of retention He makes it both a factor in perceptual cognition and a condition of recall This raises the problem of the analysis of memory and the function of retention in memory

Psychological analysis of memory is representative It is the process of remembering objects of past experience Perception, on the other hand, is a presentative experience—the interpretation of sense impressions produced by external stimuli Sometimes, the word memory is used as synonymous with retentiveness in general But Stout says that this application of the term is inconvenient Retention is a factor involved in memory It is, as was stated, a condition of memory "Memory is ideal revival, so far as ideal revival is merely reproductive and does not involve transformation of what is revived in accordance with present conditions "[1] Hume has said that, when an impression has been present with the mind, it again makes its appearance as an idea, and this it may do in two different ways In its new appearance it retains a considerable degree of its first vivacity This he calls memory [2] Retention is a condition of memory In retention, the past experience is retained in the form of mental traces or mental dispositions, (*saṁskārās*) In physiological terms, it leaves a structural modification in the brain owing to the

1 Stout (G F) *Manual of Psychology* p 520
2 Hume (David) *Treatise on Human Nature*, Sec 3

plasticity of the brain However, retention is more mental It is a *saṁskāra* which is more cognitive in nature, as Hemacandra stated The brain cannot be the repository of past experience, as Mill and William James have said Bain says that the faculty called memory is "almost exclusively found in the retentive power although sometimes aided by similarity"[3] Thus, retention implies the power of preserving in the form of mental dispositions, past perception

In this sense, the Jaina philosophers called *dhāraṇā* a condition of recollection Hemacandra mentions it as a condition of memory[4] In this sense also we can interpret the description of the three stages of retention given in the *Nandisūtra* and the *Tattvārthasūtra Bhāṣya*[5] The three stages describe stages in the development of memory[6] The first, perceptual experience, should continue to remain in the mind in some form Without this, recollection would not be possible Retention is also a condition of recall The absence of lapse of experience is necessary for the revival of the experience at a later stage In the analysis of *dhāraṇā* in the second stage, the cognition formed by *avāya* is retained This later leads to recognition Jinabhadra describes the three stages of *dharaṇā* as (i) the absence of lapse of perception, (ii) the formation of a mental trace, and (iii) the recollection of the cognition on future occasions Hemacandra points out that perceptual judgment, when protracted for some time, would become retention, and that is the absence of the lapse of perception But the absence of the lapse of perception is also a condition of recall, because without the absence of the lapse there would be no mental trace and there would be no recollection Retention, then, is not memory itself although it is a necessary condition of memory, because recollection would not be possible without retention Formation of a mental trace is an important factor in retention We have seen that Hemacandra showed that, in a sense, retention can be described as a mental trace, a *saṁskāra* It is a continued existence of a cognition for a definite or indefinite length of time He says that the mental trace, or *saṁskāra*, is cognitive in character It is a species of cognition The mental trace, or *saṁskāra*, may be compared to the mental disposition of the modern psychologists Some of these give a physiological picture of the mental disposition They say that past experiences are retained in the form of physiological dispositions They are not mental traces or mental dispositions They are only structural modifications of the brain They are unconscious cerebrations In this sense, retention would become

3 Bain (A) *The Sense and the Intellect* The Intellect (3) as quoted by Rand in *Classical Psychology*, p 486

4 *Pramāṇamimāṁsā* I 1 29

5 *Nandisutra* 35, *Tattvārthasūtra Bhaṣya* I 15

6 Mehta (M) *Jaina Psychology* p 82 He describes the psychological process of retention

merely physiological in nature It would be merely a neural habit But this view is not adequate Past experiences are retained in the form of mental dispositions, although physiological traces may also be there Mere physiological disposition cannot take the place of mental disposition Mellone says that they exist in the form of psychological (mental) dispositions, and not merely in the form of physiological dispositions [7] Stout also maintains that past experiences are retained in the form of mental dispositions which constitute the mental structure We have seen that Hemacandra has made the mental trace, or *samskāra*, of the nature of cognition and not different from cognition as some philosophers, like the Vaiśesikas, suppose If it were not cognition it would not produce recollection, which is cognitive in nature, nor would it be an attribute of the *self*

Retention, then, can be described as the mental trace, or *samskāra* by which experiences cognized in a definite form by *avāya* are retained in the mind and they do not lapse Such retention of past experiences will form a condition of the recall of the experience on a future occasion Hunter writes, "retaining is a necessary condition for remembering, for without it there would be nothing to remember Forgetting and retaining are related, for if there is failure to retain then there must be forgetting "[8]

Recollection

The second factor in memory is recollection Very often, recollection is considered to be a condition of memory, but it would be more appropriate to say that recollection is a form in which memory expresses itself There is a distinction between recall and recollection Hunter makes this distinction very clear For instance, if we remember a poem learnt earlier, it would be recall But, sometimes, in recalling the poem we remember our personal experiences in learning it We also remember the page on which the poem was printed and the room in which we learned the poem That would be recollection However, such a distinction is not necessary for our discussion We may take the word recollection in a broad sense as including recall We may sometimes term it as recall Recollection may be termed as reproduction of past experiences It is the ideal revival of past cognitions which have been retained in the form of mental dispositions It is the revival of the original experience It is ideal revival, as Stout says, so far as it is merely reproductive Retention alone is not, therefore, a sufficient condition of memory Experiences retained have to be recalled before they become memory Every psychic process leaves behind some engram-

7 Hunter (S M L) *Memory Facts and Fallacies*, p 15 (Pelican)
8 *Ibid* p 16

complexes which are conserved in the mental structure of the individual and bring about changes in it The conserved elements are not the mere mass, but are organized wholes through cohesion, as Drever writes Such cohesion brings about force and facilitates recall Perceptual experiences are retained in the form of mental dispositions This is also Spearman's Law of Retention Thus, retention is a necessary condition of recall However, it is not itself recall and should not be identified with recall We have seen that in the *Pramānamīmāmsā* also there is a description of retention as a condition of recall

Hemacandra describes the process of recollection According to him, it is *smṛti* It arises from the stimulation of mental dispositions, *vāsanā*, which may be considered to be equivalent to *samskāra* Perception, once experienced continues to remain in the mind in the form of an unconscious mental trace, or an unconscious mental disposition This is a latent condition of memory But when they are stimulated, they come to the surface of consciousness and we recall the experiences which we once cognized and which remained so far in the form of mental traces Therefore, Hemacandra says that the stimulation of the mental trace gives rise to recollection [9] The emergence of the latent mental trace by stimulation then, constitutes a necessary condition of recall Unless the stimulation is present, recall is not possible

According to the Naiyāyikas, *smṛti* is a form of qualified perception and has reference to the direct presentation of some object, although it involves an element of representation In memory, there is a revival of past experience in the form of ideas and images, in the same order in which they were actually experienced by us and were retained by the soul [10]

The emergence of the mental trace to the conscious level is, as seen, due to its stimulation This stimulation is determined by different conditions The conditions for the emergence of the mental trace to the conscious level may be classed into two types (i) external conditions, and (ii) internal conditions The external conditions refer to environmental factors Observation of similar objects, for instance, is an external condition necessary to arouse the mental trace to the level of conscious state Mohanlal Mehta, in his *Jaina Psychology*, has mentioned that external conditions necessary for the fact of recalling may be classed into three types, which represent the three laws of association the law of contiguity, the law of similarity, and the law of contrast [11] The recollection of an object experienced in the past refers to the object as "that", "that jar", ' that cloth" Perception always refers to the

9 *Pramāṇamīmāmsā*, I, 2 3 '*Vāsanodbodhahetukā tadityākārā smṛtih*
10 *Tarkasamgraha* p 85 (Calcutta)
11 Mehta (M) *Jaina Psychology* p 87

present datum, while recollection has a reference to the content as it existed in the past

Bain says that contiguity and similarity are fundamental bases of the memory habit and that they acquire powers in general He says that writers on mental science have described the law of contiguity by various names Hamilton terms it the law of 'redintegration' "We might also name it the law of association proper, or adhesion, mental adhesiveness or acquisition" Bain says that the second fundamental property of the intellect may be termed consciousness of agreement or of similarity It is a great power of mental reproduction, or a means of recovering past mental states It was noticed by Aristotle as one of the links in the succession of our thoughts [12]

But the external conditions alone are not sufficient Mere observation of similarity cannot give rise to recollection It is not a sufficient condition, although it is a necessary factor for recollection The 'internal competency' is also necessary This refers to the mental preparedness, or, 'the conative urge' In this sense, Hemacandra says that, though a disposition may have continued for a certain length of time, it does not operate as a cause of memory unless it is aroused [13] In this respect, we may mention McDougall's emphasis on the conative drive as a condition of memory McDougall says, 'like all thinking, remembering is a conative activity We remember and recollect effectively in proportion as we have strong motives in doing so This truth is too often ignored we are apt to regard our memory fantastically as a mysterious automatic machine over which we have no control' It is notorious that we remember emotionally exciting events better than others, which means that the strength of conation, our interest during any experience, is a main condition of our remembering There can be no doubt that an explicit volition, purpose, or intention to remember greatly favours remembering and recollecting [14]

But even this internal preparedness in the form of interest or conative drive is not sufficient unless some psychic impediments are removed The fact that our striving to recollect often fails and we get only partial recollection, that we sometimes forget partially or totally, shows that some psychic impediments counteract and come in the way of proper recollection This is made evident by the study of mental pathology McDougall says that conation can determine not only memory but also forgetting Just as desire for an object leads us frequently to remember that object, so aversion to an object (rooted in fear, disgust and painful experiences connected with it) may prevent the remembering of it It

12 Bain (A) *Senses and the Intellect* p p 1-2

13 *Pramāṇamīmāṁsā* I 2 3 and Commentary

14 McDougall (W) *Outline of Psychology* p 310

may even make it impossible to recollect it by the most genuine voluntary efforts McDougall states that thousands of cases of amnesia of this type occurred among soldiers who suffered the horrors of the front during the First World War[15] Freud also attributes failure to recollect to wishes repressed in the unconscious In his *Psychopathology of Everyday-life*, he cites instances of forgetting in everyday life Thus, in order to get effective recollection, it is necessary to remove psychic impediments like aversion to the object, fear and other painful experiences associated with it

Such a removal of psychic impediments was, in a sense, mentioned in terms of the removal of *karma* Hemacandra says that, in order to arouse stimulations, subsidence and destruction of the obstructive veil of *jñānāvaranīya karma* would be a necessary condition of recollection in addition to observation of similar objects and the conative drive[16] However, the Jainas mentioned the condition of the removal of psychic impediments in terms of the metaphysical concept of *karma* and the operation of *karma* In fact, the Jainas say that destruction and subsidence of the knowledge-obscuring *karma*, *jñānāvaranīya karma*, is a necessary condition of all cognition[17]

According to the Nyāya system, while memory has some general conditions, like the original past presentation *(pūrvānubhava)*, and its mental trace, *(saṁskāra)*, it has a number of specific causes which are responsible for retention of the impressions and their recall in cosciousness on future occasions Several factors, like attention *(pranidhāna)*, association *(nibandha)*, repetition *(abhyāsa)*, and *pāpa* and *punya*, are operative as conditions in producing recollection as also in retaining an experience Chatterjee, in his *Nyāya Theory of Knowledge*, mentions twenty-three such causes as given by the Naiyāyikas[18]

The Jainas say that recollection is a valid form of cognition In fact, it is a source of knowledge, a *pramāna*, because it is never found to be discrepant with fact as in the case of successful activity like search for a thing deposited by oneself The Vaiśesikas and the Advaita Vedāntins also accept recollection as valid cognition Sometimes, an objection has been raised to the effect that recollection is not a source of knowledge, a *pramāna*, because it does not cognize the present datum and so has no objective basis The Nyāya system does not admit memory as a separate source of knowledge, because it is only a reproduction of past experience in the same form in which it was once experienced[19]

15 McDougall (W) *Outline of Psychology* p 311

16 *Pramānamimāmsā* I 2 3 and Commentary

17 *Ibid*

18 Chatterjee (S C) *The Nyāya Theory of Knowledge* Ch II p 25

19 *Nyaya Sūtra Vrtti* 1, 1, 3

The Naiyāyikas say that it is not a presentative knowledge *(anubhava)* It is only the representation of what was once presented The object as remembered is different from the object as presented, since the object as presented before, has ceased to exist The Mīmāṁsakas also do not regard recollection *(smṛti)*, as a *pramāṇa*, since it gives us knowledge of things only previously experienced, it does not give any new knowledge, but only a revival of the same old knowledge The validity of remembered knowledge depends on the validity of the previously experienced knowledge

But the Jainas say that, while memory is conditioned by the revival of impressions of past experiences, its essence lies in the knowledge of something as 'that' in the past *(taditγākāra)* It is the knowledge of what was previously experienced as past Memory is, in the language of L T Hobhouse, assertion of the past as past That memory refers to a previously experienced object, or that it is an assertion of the past, is known by memory itself The Jainas say that knowledge of the past given by recollection is valid, like perception, because it leads to successful activity They also give the criterion for establishing the validity of recollection If recollection were not valid, inference based on *vyāpti*, the universal relation between the major term and the middle term, would become invalid Hemacandra points out that recollection refers to an object that has once been experienced, and the reality of the object and not its actually felt presence is the condition of validity for a cognition If it is contended that the object must be felt as present, as in perception, in order to get valid cognition, we may equally say that perception is also invalid as it is found to lack the criterion of referring to a fact that has been experienced in the past If revelation of the relevant object be a criterion of validity, it is found to be equally present in the case of memory

Again, it has been objected that it would be difficult to understand how an object which is deficient can be a generating condition of recollection But the Jainas say that this objection is also not valid Cognition reveals its object when it is brought into being by the requisite condition of the operation of the sense organs and mind and the destruction and subsidence of the knowledge-obscuring *karmas*, just as light which comes into being on the operation of its own conditions reveals objects, like the jar, though not generated by those conditions Similarly, if recollection is said to be invalid, one must give up inference also, since inference is not possible without recollection of the necessary concomitance [20]

Some Vaiśesika writers also contend that *smṛti* (recollection), is a valid source of knowledge They recognize both *smṛti* and presentative

20 *Pramāṇamīmāṁsā*, I, 1—3 and Commentary

cognition (*smṛtyānubhava)*, as a form of valid knowledge *Smṛti* arises out of impressions of past experience, and it is the knowledge of the individual object 'as that', as something previously experienced, like 'that bathing *ghat*' and 'that city of Banaras'

Vallabhācārya also maintains that *smṛti* is a separate *pramāṇa*, because it gives true knowledge of certain facts Although it depends on previous experiences, it cannot be said to be merely a repetition of some previous experience It is something more It gives the experience of the past experience *as* past Awareness of its being past is not a part of previous experience, and memory gives us the knowledge of this new element

Among the Western philosophers, Russell, Hobhouse and others recognize memory as a primary source of knowledge Memory gives us direct knowledge of the past Russell says that immediate knowledge by memory is the source of all other knowledge concerning the past, without it, there would be no knowledge of the past by inference, since we should never know that there was anything past to be inferred [21] He says that memory resembles perception in point of immediacy and differs from it mainly in its being referred to the past Hobhouse shows that memory is neither retention of past experience nor a mere image of past experience, but an assertion of it as past on the basis of such retention and images [22] Ewing also thinks that the view of memory as a direct experience is clearly true if we have any knowledge of the past at all If we know the past, it is the past we know and not the present ideas of the past [23] It is a mistake to suppose, as the Naiyāyikas did, that we are directly aware of the past, that the past must be, so to speak, bodily present to our mind or occupy the same position as present objects of perception

Thus *smṛti* or recollection, is considered by the Jainas as valid cognition and a separate source of knowledge In fact, even inference involves memory, because it cannot take place without the recollection of the universal relation between the major term and the middle term

The validity of recollection as cognition is an epistemological problem, although it has a psychological significance Recall is a revival of past experience It has past experience as its basis But we must remember that perception is one kind of mental event, while recall is a different kind of mental event It is cognitive in nature and an independent source of knowledge Drever says that a percept is an event and memory of it a new event The Jaina analysis of recollection is mainly epistemological although it expresses the psychological factors

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21 Russell (B) *Problems of Philosophy* p 75

22 Chatterjee (S C) *The Nyāya Theory of Knowledge* Ch IV

23 *Mind*, April 1930, p 142

involved in the fact of recollection The Jainas were primarily concerned with the analysis of recollection as a *pramāna* The psychological factors involved in recollection were only incidentally referred to In fact, all Indian thought gives mainly a metaphysical and epistemological analysis of the problems of knowledge, although psychological factors are incidentally mentioned

Recognition ***(Pratyabhijñā)***

Recollection (*smrti*), does not give us a complete picture of memory unless recognition as a factor operates Complete memory involves retention, recall and recognition We may, however, say that retention is a condition of memory, and recall and recognition are not so much conditions of memory They are forms of expressing the cognition experienced in the past Remembering may take different forms The effects of past learning may manifest themselves through the activities of recall or of recognition and they manifest themselves by making it easier to relearn the original experience[24] Corresponding to these forms of remembering there are different procedures in which memory may be employed as a test for the continued retention of the effects of learning These are the methods of recall, recognition and relearning[25] We are not concerned with relearning because it is not a valid source of knowledge as such

Recognition was defined as the remembering of something that was presented to the senses For instance, as Woodworth mentions, we recognize a friend by his visible appearance or by the sound of his voice His dog may recognize him by the sense of smell The other senses may sometimes provide cues for recognizing an object already experienced in the past Cues or signs are used in recognition as they are used in perception In fact, recognition is a kind of perception '[26] McDougall makes a distinction between implicit and explicit recognition The former is primitive and the latter develops out of it The dog that runs away at the sight of a man who threw a stone at it, is showing only implicit recognition The dog does not think this is the man who threw the stone' For us, the utterance of the proper name of the object is an important part of recognition The similarity of the effect on us is an essential ground of recognition "The capacity for recognition, and so of all remembering, is at bottom of the fundamental function which James calls 'conception' and which perhaps is better called 'knowing'"[27]

The question regarding the nature of recognition was discussed by the Nyāya thinkers Chatterjee mentions a distinction in the meaning

24 Hunter (S L M) *Memory—Facts and Fallacies*, p 16, (Pelican)

25 *Ibid*

26 Woodworth (R S) *Psychology—A Study of Mental Life* p 569

27 McDougall (W) *Outline of Psychology* p 308

of recognition It can be understood in two senses In a wide sense, recognition means understanding the nature of a thing In this sense it is an ordinary mode of perception It may be referred to as *savikalpa pratyksa* In a narrower sense, recognition means knowing a thing as that which was known before *Pratyabhijñā* is recognition in this sense According to Naiyāyikas *pratyabhijñā* is conscious reference of past and present cognition of the same object I see a jar and I recognize it as something perceived before Thus I say, "this is the same jar that I saw "[28]

It has been maintained by some that recognition is a confusion of two cognitions, perception and recollection The Buddhists think that recognition is a mechanical compound of presentative and representative mental states It is not a single psychosis because it cannot be perceptual in the absence of a sense object contact Similarly, they say it cannot be a *samskāra*, for there is a sense of *thisness* in the state of recognition The Naiyāyikas contend that it is a kind of qualified perception giving us knowledge of the present object as qualified by the experience of the past We see an object and we recognize it as having been seen on a previous occasion The Mīmāmsakas and the Vedāntins support this view But the Jainas argue that the state of recognition is a simple psychosis It is synthetic in nature and it is different from perception and recollection [29]

The Jainas give prominence to recognition as an important form of cognition Hemacandra describes recognition *(pratyabhijñā)*, as synthetic judgment born of perception and recollection [30] Perceptual experience and recollection work together to produce recognition They are both combined to form a synthetic judgment born of perception and recollection They are, therefore, conditions of recognition Recognition as a synthetic judgment is expressed as this is that jar', and this is that cloth' These are cases of identity We also get recognition as synthetic judgment which expresses similarity in the form of judgment, as the cow is like the *gavaya* In this sense, the Jainas make *upamāna*, a form of recognition, and they do not give *upamāna* the independent status of *pramāna* We may also get the synthetic judgment of recognition expressed in the judgment of diffrence We recognize that the buffallo is different from the cow Thus, recognition is a concrete psychosis It is synthetic in nature, expressed in synthetic judgment, like the judgment of identity, the judgment of similarity, and judgment of difference Perception is the direct and immediate cognition of the object when the object is present to the senses Recollection is the reproduction, ideal revival', of what was experienced in the past It is the emergence of the mental

28 *Nyāyabhasya* 3 1 7, 3, 2 2
29 *Prameyakamalamārtanda* p 97 - 98
30 *Pramānamimāmsā* I 2 4

trace to the level of consciousness When perception and recollection are combined in a particular form to produce synthetic experience expressed in a synthetic judgment, we get recognition When we get a description like, 'know him to be Caitra who is shaggy all over the body, who has protruding teeth, who is dwarfish and who has broad eyes and a snub nose', we make out Caitra when we see him next Similarly, a man from the North happens to describe a camel as 'a cursed animal with long crooked neck and with ugly limbs, addicted to feeding on hard sharp bramble' A man from the south who heard this description happens to see a thing of such description, he then recognizes the animal as a camel in the form of a synthetic judgment, 'the object in front is a camel'[31] The Jainas have emphasized the synthetic nature of recognition as an act of cognition However, it is a concrete psychosis in which the present and the past, perception and recollection are synthesized In this sense, recognition is different from recollection, although recognition involves recollection as a factor In recognition, the object is present before us, in recollection, what is recollected is not present to our senses

A psychological analysis of recognition shows that recognition is a fusion of a percept with an image Recognition accepts or rejects the object recalled in memory We recognize when we react to present experience as familiar The sight of a face, the sound of a note, the smell of a rose, all these may be experienced as being familiar But we recall a word by speaking it, or we recall past activities after an interval Hunter makes a distinction between recall and recollection Recollection involves personal aspects in the memory Recognition has been described as a mental state which may be definite or indefinite We may get indefinite recognition in which we only get a feeling of familiarity without getting a definite picture of that experience Recognition will be definite when it refers to the place and time of the experience In such recognition we get, as Titchner said, a revival of the cognition of an object once experienced, associated with a group of other ideas and tinged with a feeling of familiarity Thus, in recognition, the perception of an object and the recall of the percept are synthesized to produce a concrete psychosis of recognition The Jainas described such a concrete psychosis as recognition, or *pratyabhijñā* However, Stout says that recognition in its more primitive form does not require discrimination of the universal from the particular, but only a confused or implicit awareness in which the universal is not separately apprehended as a distinct object of thought In recognition, there is only a rudimentary judgment of recognition inasmuch as the universal nature of the particular is confusedly apprehended Yet, there is no judgment in which the subject and the predicate are

31 *Pramāṇamīmāṁsā* I 1, 2, 4 and Commentary

mutually sundered from each other[32] We are not here concerned with the problem of apprehending the distinction between the universal and the particular in perceptual judgment However, it may not be out of place to say that the Jainas have made recognition a non-verbal form of cognition, in which explicit expression of a judgment in the form of a proposition containing subject and predicate is not possible, although recognition is a form of experience in which we are aware of the similarity or difference of the object which was experienced in the past In this, we are to understand the description of recognition given in the *Pramānā-mīmāmsā* as a synthetic judgment, like the judgment of similarity, identity and distinction, although not explicitly expressed in language

But the content of recognition and the content of recollection are different, because recollection only cognizes what has been known before and refers to its content as 'that' Recognition establishes the identity of the past datum with the present one[33]

The validity of recognition and the nature of recognition as separate source of knowledge, a *pramāna*, has been an important problem in Indian thought It was very often contended by some schools of Indian thought, like the Buddhists and the Naiyāyikas, that recognition is not an independent source of knowledge, a *pramāna* The Buddhists say that there is nothing like recognition as a separate source of knowledge as anything different from cognitive acts like recollection, indicated by the word 'that', and perception, indicated by 'this' The Naiyāyikas say that recognition is a kind of qualified perception in which the present object is qualified by the distinct recollection of our past experience of it But the Jainas say that such an objection is not valid, because the object that is known by recognition cannot be comprehended by recollection and perception alone The province of recognition is the substance which stands out as the identity in and through its antecedent and consequent modes This identity cannot be the content of recollection, which cognizes only what has been experienced before But we are aware of the identity of the object experienced in the past with that which is presented to our present consciousness This identity cannot be cognized only by perception, which is limited to the cognition of the present datum

The Naiyāyikas maintained, as we have seen, that recognition is nothing but a species of perception The Sāmkhya theory also brought *pratyabhijñā* under perception The eternal *buddhi* undergoes modification by virtue of which it becomes connected with the different kind of cognition involved in recognition Similarly, the Mīmāmsakas and the Advaita Vedantins also hold that recognition is a

32 Stout (G F) *Manual of Psychology* p 310
33 *Tattvasamgraha* 453

kind of perception Recognition is that kind of perception in which the object is determined by the name by which it is called, as 'this is Devadatta', for, according to Advaita Vedāntin, *pratyabhijñā* is a perception of the *nirvikalpa* type since there is in it no predication of anything about the perceived object, but an assertion of its identity amidst changing conditions Śaṃkara agrees with the Naiyāyikas and the Mīmāṃsakas in holding that recognition is a perceptual cognition produced by the peripheral stimulation and the subconscious impressions co-operating together Kumārila agrees with the Naiyāyikas in regarding recognition as a presentative cognition, since it is present where there is activity of the senses and is absent where there is no activity of the senses We cannot treat recognition, he says, as non-perceptual only, because it is preceded by an act of recollection In recognition also there is a contact of the sense organs with the object, and wherever there is such contact there is perceptual cognition [34] But the Jainas say that such a view cannot be accepted, because the province of perception is limited to what is actually present and given to the senses Hence, the identity of the past and the present datum cannot lie within the scope of perception [35]

It has been urged that a sense organ, with the help of recollection, does give rise to perception of such identity, and recognition is only a species of perception But Hemacandra says that this is impossible, because a sense organ cannot go beyond the sphere of the present datum It is also not true to say that the senses will be able to comprehend identity when associated with recollection, just as the organ of vision acquires additional potency when associated with collyrium The additional efficiency that might be acquired by a sense organ is never found to overstep its proper jurisdiction Therefore, recognition is not a form of perception [36] Nor is it mere recollection It is not even formed by the mere combination of perception and recollection It is a synthetic judgment which expresses something more than the mere combination Therefore, recognition is an independent source of knowledge, a *pramāna* Hemacandra says that it cannot be said to be lacking in validity, since the lack of discrepancy, which is the criterion of validity, is present in it On the metaphysical plane, if the identity of the *self* and the like as determined by the evidence of recognition were to lack objective reality, the logical justification of bondage and emancipation as states of the same ethico-religious aspirant would become impossible The sense of identity will have a lease of life only if we accept recognition as a valid source of knowledge [37]

34 Chatterjee (S C) *The Nyāya Theory of Knowledge*, p 206

35 *Pramāṇamīmāṃsā* I 2, 3 and Commentary

36 *Ibid*

37 *Pramāṇamīmāṃsā*, I 2, 3 and Commentary

This is the picture of the validity of recognition as a source of knowledge It is mainly an epistemological problem, although it has great psychological significance Recollection *(smrti)*, and recognition *(pratyabhyñā)*, have been described as forms of memory Memory expresses itself, as we have seen, in recollection and recognition We have also seen that recognition is a synthetic judgment in which the identity of the present datum with that which was experienced in the past is expressed, although it is still a non-verbal form of cognition As it is a synthesis of recollection and perception, it would be difficult to maintain that it is an independent form of cognition, a concrete psychosis Recognition is a form expressing memory It is sometimes described as a factor involved in memory And memory is ideal revival It is mainly reproductive in nature and does not involve transformation of what was revived in accordance with the present conditions In this sense, it is not possible to say that recognition is an independent form of cognition, although it may be called a psychosis which is synthesized by recollection and perception However, the Jainas maintain that recognition is not a species of perception nor of recollection This view is also true because recognition is not just perception nor recollection It is a synthesis The synthesis gives the additional quality judgment of the identity of the present datum with that which was experienced in the past It may also express similarity and difference However, this problem is more epistemological than psychological

Thus, recollection *(smrti)*, and recognition *(pratyabhyñā)*, have been considered by the Jainas as valid forms of cognition and sources of knowledge. Retention is a condition of recollection as much as it is a condition of perception The tendency to endure is a prominent factor in retention, and the absence of lapse is itself a tendency to endure Retention is also a condition of recollection, because the mental trace retained in the mind makes recollection possible when it is aroused and revived Modern psychologists make retention, recollection and recognition factors involved in memory We have seen, as Hunter points out, that recollection and recognition are forms of expressing memory, because memory is not a thing containing parts but the mental activity itself, although faculty' psychologists made compartments of the mind and memory a faculty of the mind Even Hume says that an impression makes its appearance in two ways either it retains a considerable degree of vivacity in its new appearance or it loses that vivacity and becomes an idea The faculty by which we repeat our impressions retaining the original vivacity is called memory [38] But modern psychologists do not treat memory as a faculty or a thing but as an activity We may better talk of remembering rather than memory

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38 Hume (David) *Treatise on Human Nature* Pt I, Sect III

However, remembering may take different forms It may express itself through the activity of recall or recognition In this sense, we may think of recall and recognition as separate and valid forms of memory rather than conditions or factors involved in memory *Smrti* and *pratyabhijñā* would then be the two valid cognitions However, such an analysis would be more epistemological than psychological

Inference *(Anumāna)*

We now come to another source of knowledge *(pramāna)*, which is inference *(anumāna)* The Jainas have mentioned *ūhā*, inductive reasoning, and *śabda*, scriptural authority, as separate *pramānas* But these two are not relevant to our discussion, because they have a more logical than psychological significance Inference, or *anumāna*, is generally recognized by all the Indian systems except the Carvāka as a *pramāna* Inference and reasoning are expressions of thinking as an activity of the human mind Modern psychologists have begun to take greater interest in the study of the psychology of thinking Physiological and psychological analysis of the mechanism of thinking have been carried out by psychologists, especially the Behaviourists and the Gestalt psychologists William James recognizes that thinking of some sort always goes on But, as Vinacke points out, the fact of thinking presents two sets of phenomena, (i) the psychological process and (ii) the neural process [39] The early philosophers in the West gave prominence to thinking as a special and differentiating quality of man Man was called *homo sapiens* Aristotle said that man is a rational animal The highest form of mental life is reasoning, which utilizes material from sense and imagination, but goes beyond them into the realm of pure ideas Aristotle worked out a logical system of reasoning which is called traditional logic * Early Greek philosophers gave theories about reasoning as about other mental states, from logical systematization based on introspection rather than from empirical evidence in the modern sense [40]

A similar attitude was present in early Indian thought The Indian philosophers were concerned with building a logical structure of reasoning and incidentally with the epistemic conditions of reasoning, rather than the psychological analysis of reasoning The theory of knowledge and the analysis of the epistemic conditions of reasoning had for them a pragmatic value For the Jainas, as for many other Indian philosophers, the ultimate aim was *moksa* The realization of *moksa* is possible by right knowledge as also by right intuition and right conduct

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39 Vinacke (L E) *The Psychology of Thinking*, Ch V, p 57

40 *Ibid*

* Recently Luckasiewicz in his book *Aristotle s Syllogistic* has pointed out that Aristotle s logic cannot be identified with traditional logic

It was, therefore, necessary for them to study the conditions and limitations of knowledge The Jaina emphasis on the logical and epistemological problems of reasoning expresses the spirit of Indian thought This study has to be restricted to the nature and conditions of inference as a process of thought The psychological factors will be referred to, as also the psychological significance of the nature and conditions of inference This has been included in the discussion because reasoning is a source of knowledge and the analysis of empirical experience would not be complete without understanding the nature and conditions of inference as a source of knowledge

The Jainas have recognized inference *(anumāna)*, as a source of knowledge, *(pramāna)* Most of the Indian schools of thought, with the exception of Cārvāka, have given prominence to inference as a source of knowledge The Cārvākas are materialists They contend that perception is the only *pramāna* As perception cannot establish a universal proposition, nor can tell us anything about the past and future, perception cannot give us knowledge of *vyāpti*, which is the universal relation between the major and the middle term and the basis of inference Therefore, the Cārvākas say that inference is not a valid source of knowledge as it has no sound logical basis[41] But the Buddhists have objected to this contention of the Cārvākas The Buddhists say that the Cārvāka refutation of inference is itself a process of reasoning Similarly, it is by inference that the Cārvākas came to know that their views were different and that the other sources of knowledge were not valid[42] Hemacandra also says that the Cārvākas have to depend on other sources of knowledge, like inference, for the validity of their contention Since perception will not be able to cognize things in the past and future, even with regard to specific direct cognition, the Cārvākas will not be in a position to determine the validity or invalidity of cognition to the satisfaction of others Perception is subjective and so will not be able to establish the objective validity of inference[43] It was seen earlier that in Plato's *Dialogue, Theætetus*, Socrates examines the doctrine of knowledge through perception and shows that such a doctrine leads to the impossibility of knowledge In the *Pramānamīmāmsā*, Hemacandra says that the validity even of perception can be established only on the evidence of its unfailing correspondence with fact Hence it follows that Cārvāka must have recourse to a different source of knowledge like inference The Buddhists have accepted inference as the other source of knowledge In fact, the Buddhists make all non-perceptual cognition necessarily of the nature of inference

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41 Radhakrishnan (S) *Indian Philosophy* Vol I, Part II Ch V
42 *Pramānamīmāmsā* I 1 11 and Commentary
43 *Ibid*

The meaning of inference has been a difficult problem in Indian thought, though there has been general agreement on the essential nature of inference The Jainas say that inference is mediate know ledge It is knowledge obtained through some other knowledge. Hemacandra says that inference is the knowledge of the major term on the strength of the knowledge of the middle term [44] The Jainas hold that *anumāna* is the process of knowing an unperceived object through the perception of a sign and the recollection of its invariable concomitance with that object It is called *anumāna* because it is the organ of subsequent *(anu)* cognition *(māna)* The knowledge of the major term which is of the nature of authentic cognition of a real fact and which arises from a middle term either observed or expressly stated, is called inference It is really cognition which takes place subsequent to the apprehension of the middle term and the recollection of the necessary relation of the major term and the middle term [45] In the *Jaina Tarkabhāṣā*, a definition of inference as given in the *Pramāṇamīmaṁsā* is mentioned The Nyāya system has worked out an elaborate system of inference It is primarily a study of inference Vātsyāyana, in his exposition of the process of reasoning described by Gautama, asserts that the process of reasoning is extremely subtle, hard to understand and only to be understood by one of much learning and ability Keith says that the admission of such a nature is important, because it shows how difficult were the first steps of understanding the process of reasoning [46] *Anumāna*, literally, means knowledge which follows from some other knowledge It is knowledge of an object due to the previous knowledge of some sign, *linga* [47] The previous knowledge is the knowledge of the sign which shows the universal relation between the major and the middle term *Anumāna* has been defined by the Naiyāyikas as knowledge of an object not by direct perception but by means of the knowledge of a *linga*, or sign, which expresses the relation between the major and the middle term Bhāsarvajña defines inference as a means of knowing a thing beyond the range of senses through its inseparable connection with another thing which lies within the range of senses Gangeśa defines inference as knowledge which is produced by some other knowledge The object of inference is the knowledge of some fact which follows from the knowledge of some other fact By means of *anumāna* we want to know that which may not be perceived but which is indicated by previous perception For instance, *anumāna* leads to the knowledge of a hill having a fire on the basis of the perception of the smoke on the hill [48]

44 *Pramāṇamīmāṁsā* I, 2 7
45 *Ibid* and Commentary
46 Keith (B) *Indian Logic and Atomism*, p 85
47 *Nyāyabhāṣya* I, 1, 3 1
48 Chatterjee (S C) *The Nyāya Theory of Knowledge*, Ch IX, p 253

All systems of Indian thought, except the Cārvāka, believe that inference is a process of arriving at truth not by direct observation but by means of knowledge of the *vyāpti*, the universal relation between two things The Buddhists believe that inference consists in perception of that which is known to be universally connected with another thing Such a connection is either due to the principle of causality or to the principle of identity According to the Vaiśesikas, inference is knowledge derived from the perception of a *linga*, or sign, which is uniformly connected with something else, such as cause, effect, co-effect and correlative term The *Sāmkhya, Yoga, Mīmāmsā* and *Vedānta* systems define *anumāna* as knowledge of one term of a relation which is not perceived through the knowledge of the term, but which is explicitly understood as related to the first term In this sense, inference is a process of thought in which from something known we arrive at something unknown

In Western thought, Miss Stebbing distinguishes inference from suggestion and recollection However, it is difficult to distinguish precisely between those experiences in which inference is not involved and those in which it is Psychologists do not agree as to where the line should be drawn It is not, however, legitimate to distinguish, she says, between two kinds of inference as psychological inference and logical inference All inference is psychological, for inference is a mental process, but its validity depends on conditions that are logical Inference, then, may be defined as a mental process in which a thinker passes from the apprehension of something given— datum— to the apprehension of something related to the datum in a certain way The datum may be a sense datum, a complex perceptual situation, or a proposition The datum of an inference can always be expressed in a proposition Hence, inference may be said to be a mental process in which a thinker passes from one or more propositions to some other propositions connected with the former in a certain way[49] Western philosophers and physchologists are not agreed as to the essential marks of reasoning On the one hand there are philosophers who regard reason as quasi-divine and a spiritual function, while the materialists and some modern philosophers like Strong, Santayana and Russell have thought of reasoning as merely a complex process of associative reproduction essentially determined by the physico-chemical process in the brain proceeding according to the purely mechanistic laws of habit From the point of view of psychology, McDougall says that the essence of all reasoning is that a judgment and a new belief are determined by beliefs already established in the mind If the old beliefs are true and the reasoning process correct, the new

49 Stebbing (S) *Modern Introduction to Logic* p 211

belief is true and becomes an effective guide to action In this he includes inductive reasoning also In the most striking cases, the new belief is derived from a complex chain of processes from a previously established belief as when the astronomer Adams arrived at the belief that a hitherto unseen planet would be seen at a certain position in the heavens if a sufficiently powerful telescope were directed to that spot [50] Some modern psychologists have tried to reduce the whole thinking process to neural activity They have made it implicit talking But this problem is not relevant to our purpose

Inference has been distinguished from perception It cannot be identified with perception, although both are equally valid sources of empirical knowledge Perception is independent of any previous knowledge, while inference depends on previous perception It is sometimes defined by the Naiyāyikas as knowledge which is preceded by perception It is based on the perception of the relation between the middle and the major term as subsisting in the minor term Secondly, perception is due to the contact of the sense organs with an object Hence, perception is limited to the cognition of the present But in inference it is possible to get knowledge of the past and future in addition to the knowledge of the present Perception, therefore, is direct immediate knowledge, while inference is mediate knowledge Hemacandra says that perceptual cognition arises out of the datum present to the senses It is incapable of taking cognizance of what has preceded and what is to follow Therefore, it cannot discern a characteristic capable of determining the validity or invalidity of the individual cognitions occurring before and after Similarly, it is not possible by means of perception to have acquaintance with what passes in other people's minds [51] Udyotakara mentions this point when he makes a distinction between perception and inference Perception is confined to objects of the present time and within the reach of the senses, while inference relates to past, present and future [52] Perception and experimental observation do involve an element of inference in that the perceived element is interpreted Śamkara says that where perception is available inference has no place [53] Buddhists made another distinction between perception and inference For them, perception gives, though inexpressible in words, the peculiar character, *(svalakṣana)* of the momentary object, while inference deals with ideal generality *(sāmānya lakṣana)* But the Naiyāyikas do not accept this distinction For the Naiyāyikas, perception gives us knowledge of the individual in its concrete detail as well as its generality, while in inference

50 McDougall (W) *Outline of Psychology* p 402

51 *Pramāṇamīmāṁsā* I, 1, 11 and Commentary

52 *Nyāya Vārttikā*, II, 1, 31

53 Radhakrishnan (S) *Indian Philosophy*, Vol II, p 73

we deal with generality only in an abstract form For instance, we have, on the one hand, before us fire which we perceive, on the other hand, we infer the existence of fire past, present and future as generally connected with smoke

Types of Inference

Indian logic does not make a distinction between deductive and inductive inference as separate forms of inference Rather, an inference is a combined deductive and inductive process Similarly, the distinction between immediate and mediate inference is also not found All inferences are in the form of categorical syllogisms, and they have both formal and material validity A distinction between deductive and inductive inference is psychologically inadequate Vinacke points out that it has become conventional to recognize two broad areas in logic formal logic, which is called deduction, and scientific method, which is called induction 'It is now commonly recognized, however, that these distinctions break down in the actual process of reasoning, although deductive inference is often the only observable process in formal syllogistic situations If syllogisms are extended into everyday life so that their origins can be traced, inductive processes occur' [54] Dewey has endeavoured to rid logic of such distinctions as deductive and inductive inference, because both kinds of enquiry are fundamental in science and such a distinction is possible through intellectual analysis Even the division of inference into immediate and mediate is not psychologically sound The process of inference is always uniform and one It is the process of thought in which from something which is already known we arrive at something relating to something new which is not present to the senses In this sense, immediate inference is only a brief expression of the process of inference The main function of mediate inference is to communicate systematically one's own reasoning to others with a view to convincing them or rather with a view to creating similar beliefs in others For the sake of our own knowledge and conviction it is not necessary to establish an elaborate system of reasoning in the form of syllogism In this sense, the division of inference into immediate and mediate has no psychological significance, although it may have logical importance and validity

In this sense also, it may be said that a distinction has been drawn, in Indian thought between inference as inference for one-self *(svārtha anumāna)* and inference for others *(parārtha anumāna)* Almost all Indian systems have made such a distinction In the *Pramānamīmamsā* inference has been similarly distinguished Inference for others is described as syllogistic in nature Inference for oneself is subjective and 'is calculated to remove personal misconception, while

54 Vinacke (L E) *The Psychology of Thinking* Ch VI, p 76

syllogistic inference 'is capable of removing the misconception' of another person[55] Subjective inference is also based on the knowledge of the relation of the major with the middle term[56] Still, it needs to be expressed in elaborate syllogistic form The Naiyāyikas made three classifications of inference *(i) svārtha anumāna* and *parārtha anumāna*, *(ii) pūrvavat*, *śesavt* and *sāmānyato drstam*, and *(iii) kevalānvayi*, *kevala-vyatireki* and *anvaya vyatireki* Keith points out that the distinction in inference as *svārtha* and *parārtha* was wholly unknown to Gautama and Kanāda but was accepted by the Syncretist School[57] The classification of inference into *svārtha* and *parārtha* is a psychological classification which has in view the purpose which the inference serves[58] With reference to the purpose, all inferences are either meant for acquiring some new knowledge for oneself or for the demonstration of a known truth to others In the *svārtha* inference, a man seeks to reach a conclusion for himself In *parārtha* inference, the aim is to demonstrate the truth of the conclusion to others The conclusion is justified with the help of the middle term For instance, in the *parārtha anumāna* a man, having inferred the existence of fire on a hill, lays it down as a thesis and proves it for others[59] The other two classifications mentioned by the Naiyāyikas have rather logical significance than psychological value Regarding the distinction between the *svārtha* and *parārtha anumāna*, it may be pointed out that inference for oneself is notional *(jñānātmaka)*, as Dharmottara stated Inference for others is verbal *(śabdātmaka)* Keith points out that the Nyāya view of the distinction shows that, in inference as communicated by the syllogism, that is *parārtha* inference, the hearer must perform the necessary mental operation which the teacher has already preformed and which he now helps by syllogistic exposition the hearer to perform for himself Therefore, it can be said that the *svārtha* inference deals with the process of inference and the *parārtha* inference is the formal expression in syllogistic form The first is characterzied as *artha-rūpatva*, as Śivāditya showed, the other as *śabdarūpatva*

Vinacke points out that, if deduction is regarded as a method by which already existing generalizations are used, it is found that deductive situations are widely encountered in everyday life They are not always evident as such They often occur in a disguised and incomplete form He says that, in general, two aspects of the problem may be distinguished On the one hand, there are conditions under which the individual argues with other people, on the other, there are more or less

55 *Pramāṇamīmāṃsā* I, 2, 8 and Commentary '*tat dvidhāsvārtham parārthamca Svavyāmohanivartanaksamam svārtham*

56 *Ibid* 9

57 Keith (B) *Indian Logic and Atomism*, p 95

58 Chatterjee (S C) *The Nyāya Theory of Knowledge*, Ch XIII, p 289

59 *Tarkasamgraha*, p 48—49, Calcutta

public arguments to which the individual is exposed In the first situation, we are obliged to make assertions, develop arguments and state conclusions with a view to communicating and demonstrating them to others In the second type of situations, we find ourselves reading in the newspapers or magazines arguments presented implicitly or explicitly in deductive form In all such situations the rules of logic are valuable grounds for valid arguments[60] Although this distinction between the two deductive situations presented by Vinacke does not exactly correspond to the *svārtha* and *parārtha anumāna*, the analysis of the first situation corresponds to *Parārtha ānumānā* *Parārtha anumāna* expresses itself in elaborate argument in syllogistic form

Conditions of Inference

The aim of inference is to attain some new knowledge of a thing on the basis of whatever has been already known It arises out of the necessity to know something more, as also out of doubt and anxiety regarding the thing to be known Where perception is available, inference is not necessary, because we need not reflect much to know objects present to our senses Inference is not possible regarding either things unknown or things definitely known It functions only with regard to things that are doubtful[61] Doubt is a condition of inference It implies not only absence of certain knowledge about something, but also a positive desire or will to know it Modern Naiyāyikas do not accept this view, because, they say, there may be inference even when there is no doubt and in the presence of certainty Similarly, there may be inference even when there is no will to infer The inference aims at proving that which is yet unproved, as there is a desire to prove the object At the same time, as Hemacandra says, it is incapable of being contradictory Therefore, it is generally accepted by all schools that a logical discourse does not come into play in regard to matters which are unknown or definitely established[62] That a state of doubt is a motive of inference is very often recognized in psychology and philosophy Doubt sets us thinking and gives rise to efforts towards the solution of a problem The Jaina philosophers, in fact all Indian philosophers, have stated that desire to know is an additional factor for inference So, too, Miss Stebbing shows that doubt is a psychological condition of inference[63]

Inference consists in establishing the relation between the major and the minor term Knowledge of such a relation depends on the

60 Vinacke (1 E) *Psychology of Thinking* Ch VI p 87
61 *Nyayabhasya* I 1 1
62 *Pramānamimāmsa* I, 2, 13 and Commentary
63 Stebbing (S) *Modern Introduction to Logic* p 215

knowledge of the *vyāpti*, universal relation between the major and the middle term Knowledge of the major term, which is of the nature of authentic cognition of a real fact and which arises out of the middle term either observed or expressly stated, is in fact called inference It is a cognition which takes place subsequent to the apprehension of the middle term *(linga grahana)* and the recollection of the *vyāpti* [64] Regarding the *vyāpti* Das Gupta points out that the Jainas, like the Buddhists, prefer *antarvyāpti (e g*, relation between smoke and fire) to *bahirvyāpti* (relation between the place containing smoke and the place containing fire) [65] The Buddhists showed that *vyāpti* may be based on essential identity, causality, *tādātmya* and *tadutpatti* Experience cannot be the sure ground of *vyāpti* But the Vedantins make it the result of inductive generalizations based on simple enumeration The Naiyāyikas agree with the Vedāntins in showing that *vyāpti* is established on the basis of uncontradicted experience

Just as inference depends on the knowledge of the *vyāpti*, it also depends on the knowledge of the relation between the middle and the minor term This is often called *paksa dharmatā* In inference, the minor term becomes related to the major through its relation to the middle term Chatterjee points out that, while the validity of the inference depends on *vyāpti*, the possibility of inference depends on the relation of the minor with the middle term which is also called *paksatā* *Vyāpti* is the logical ground of inference, while *paksatā* is the psychological ground of inference [66] Keśava Miśra explains the process of inference as follows In the first stage the operation leads to the perception of invariable connection between the major and the middle term This is arrived at from frequent observations of the occurrence of the two in the past

For instance, smoke is observed on a hill We then remember the relation which perception has established between smoke and fire This gives rise to reflection in the form that there is on the hill smoke which is always accompanied by fire Then we arrive at the inference that there is fire on the hill Keith points out that this value of the conception of inference as a mental process is enforced in minute detail by the Nyāya school [67] From another point of view, stress is laid on the fact that the subject, the minor term, must be something regarding which there is a desire to establish something else This desire may be for one's own satisfaction or for that of others Bosanquet also considers such a mental activity of inferring as the decisive feature of inference [68]

64 *Pramānamimāmsa* 1 2 7 and Commentary

65 Das Gupta *History of Indian Philosophy*, Vol I, p 389

66 Chatterjee (S C) *The Nyāya Theory of Knowledge* Ch XII, 277

67 Keith (B) *Indian Logic and Atomism*, p 113

68 Bosanquet (B) *Logic* Ch VII

The conditions of inference have been discussed by modern Western logicians Russell seems to think that the psychological element of our knowledge of the propositions and their relations, is not a necessary condition of inference Validity of inference mostly depends on the logical condition of the implication between propositions We infer one proposition from another in virtue of a relation between two propositions 'whether we pereceive it or not' The mind, in fact, is as purely receptive in inference as commonsense supposes it to be in perception of sensible objects[69] But W E Johnson and Miss Stebbing have recognized both the psychological and the logical conditions of inference The logical conditions consist in the relation between the propositions They are called 'the constitutive conditions' The psychological conditions have been called 'the epistemic conditions' of inference They refer to the relation of the propositions to what the thinker may happen to know[70] Earlier in the chapter, Johnson says that inference is a mental process which, as such, has to be contrasted with implication The connection between the mental act of inference and the relation of implication is analogous to that between assertion and proposition Miss Stebbing also shows that inference involves both the constitutive and the epistemic conditions The epistemic conditions relate to what the thinker who is inferring knows[71]

The question regarding the special cause of inference *(karana)* that brings about the conclusion in inference, has been discussed by Indian logicians According to the Buddhists, the Jainas and some Naiyāyikas, it is the knowledge of the *linga*, the middle term, that leads to the conclusion The middle term known as such is to be taken as the *karana* or operative cause of inference R S Woodworth says that reasoning very often depends on the use of the middle term[72] The Mīmāmsakas and the Vedāntins believe that the knowledge of *vyāpti* is a cause of inference According to them, the knowledge of the universal relation between the major and the minor term is received in our mind when we see the *linga* or the middle term as related to the *paksa* or the minor term This leads to the conclusion But according to the modern Naiyāyikas, *linga* or the middle term cannot be the operative cause of inference It cannot lead to the conclusion except through the knowledge of *vyāpti* Hence, they say that the knowledge of *vyāpti* should be taken as a special ground *(karana)*, of inference *Vyāpti* does directly lead to the conclusion It has for its function the synthetic view of the middle term as related to the major term on the one hand, and of the minor term, on the other This is *linga parāmarśa* In this, the middle term is

69 Russell (B) *Principles of Mathematics* p 35

70 Johnson (W E) *Logic* Part II, p 8

71 Stebbing (S) *Modern Introduction to Logic*, p 215

72 Woodworth (R S) *Psychology—A Study of Mental Life*, p 605

considered thrice Hence, it is maintained by the modern Naiyāyikas that, while knowledge of the *vyāpti* is a special cause of inference, *linga parāmarśa* is the immediate cause of the conclusion Some modern Naiyāyikas, in fact, say that *linga parāmarśa* is the operative cause of the conclusion Bradley's analysis of inference presents a similar picture The premises, or the data, and the process of inference consist in joining them into a whole by ideal construction[73] However, as Chatterjee points out, *linga parāmarśa* is not an essential condition of all inference although it may make an inference most cogent and convincing[74] In the case of inference for oneself, we do not require more than the major and the minor premise to arrive at the conclusion There is a natural transition of thought from the premises to the conclusion In the case of inference for others, we have to state the identity of the middle term occurring in the two premises and exhibited in the third premise which relates the same middle term to the minor and major terms

Thus, it is generally agreed that inference is a mental process, and the validity of inference is based on psychological and logical grounds The validity of inference depends on the knowledge of the universal relation between the major and the middle term It is also based on the perception of the relation between the middle term and the minor Perception of the minor term as related to the middle term, and the recollection of the universal relation between the major and the middle term, lead to the conclusion of the relation between the minor term and the major This is the picture of the psychological ground of inference as presented by the Jainas and other Indian philosophers McDougall showed that all deductive reasoning involves apperceptive synthesis, although it is merely association It is a process of 'mediate apperception' In fact, he says, all types of reasoning are processes of 'mediate apperception' They all make use of the 'middle term , and this use of the middle term is the sole and essential feature of reasoning, in which it differs from other mental processes[75]

Structure of the Syllogism

All systems of Indian philosophy agree in holding that the syllogism represents the typical form of expressing inference for others However, logicians are not agreed as to the number of propositions constituted in a syllogism Propositions are called *avayavas* Some logicians say that there are ten propositions in a syllogism For instance, according to the old Naiyāyikas and also according to some Jaina logicians like Bhadrabhāhu, a syllogism consists of ten propositions

73 Bradley (F H) *Principles of Logic* Vol I, p 259
74 Chatterjee (S C) *The Nyāya Theory of Knowledge* p 288
75 McDougall (W) *Outline of Psychology* p 410 & 413

But Vātsyāyana states that all the ten members of syllogism are not logically necessary, although they may express the psychological process of inference Logicians generally agree that a syllogism has five members Gautama mentioned five members of the syllogism (i) *pratijñā* the first statement, or an assertion of what is to be proved, for instance, 'the hill is fiery', is *pratijñā* It sets forth the thesis of enquiry The suggestion presented controls the process of inference from the very start, (ii) *hetu*, states the presence of the middle term It gives the ground (*sādhana*), or the means of truth For instance, it states *dhumāt*, 'because of smoke , (iii) *udāharana* states the universal relation between the major and the middle term and gives examples in support of its contention It is a combination of the deductive and inductive processes It may be compared to Aristotle's major premise with the establishment of the universal proposition by means of examples It presents an inductive process in stating examples Dr Seal writes that the third member of the syllogism combines and harmonizes Mill's view of the major premise as a brief memorandum of like instances already observed with the Aristotelian view of it as universal proposition and a formal ground of induction[76], (iv) *upanaya*, the application of a universal proposition with its examples to the subject for the minor term of the inference It may be called the minor premise of the syllogism This may be affirmative or negative, (v) *nigamana*, the conclusion, it states, "therefore the hill is on fire" What is provisionally presented in the *pratijñā* is finally accepted in the conclusion The *Sāmkhya* and *Vaiśesika* systems accept the five membered syllogism But the Mīmāmsakas and the Vedāntins do not accept the five membered syllogism According to them, a syllogism does not require more than three members to carry conviction The two essential conditions of valid inference are the *vyāpti* and the *paksa dharmatā*, the presence of the middle term and the minor term Therefore, they contend, the three propositions would be sufficient to give full force to the syllogistic inference The three propositions may be the first three like *pratijñā*, *hetu* and *udāharana*, or they may be the last three, like *udāharana*, *upanaya* and *nigamana* The Buddhists go further than the Mīmāmsakas and reduce the syllogism to two propositions only This is analogous to the enthymeme in Western logic

Among the Jaina logicians Bhadrabāhu seems to be in favour of ten membered syllogisms, as we have mentioned earlier In his *Āvaśyaka Niryukti* he describes the ten propositions constituting a syllogism They are constituted by the *pratijñā*, *hetu* and their *vibhakti* and *vipaksa* Similarly, *ākānksa* and *ākānksa pratisedha* are the constituent propositions in such a syllogism Radhakrishnan says that Bhadrabāhu here adopts the double method of proof When an argument is put

76 Seal (B) *Positive Sciences of the Ancient Hindus* p 252

forward, for instance, to prove the non-eternity of sound, the counter-proposition is asserted and denied by means of the statement [77] However, Bhadrabāhu says that the number of propositions in a syllogism depends on the calibre of the person to whom it is addressed Accordingly, it may be a ten-membered syllogism or a five-membered syllogism Neither of these alternatives need be rejected 'We reject neither' [78] In the *Pramāṇamīmāṃsā*, Hemacandra describes the nature of the five propositions constituting a syllogism [79] Bhadrabāhu's contention that the extent of the constituent propositions depends on the ability of the persons to whom it is addressed, has great psychological importance It implies that the inference is limited by the capacity of the individual's understanding of the argument presented Siddhasena Divākara mentions five members in a syllogism However, Das Gupta says that, regarding inference, the Jainas hold that it is not necessary to have five propositions in a syllogism It is only the first two propositions that actually enter into the inferential process (vide *Prameya-kamalamārtanda*, pp 108- 109) When we make an inference, we do not proceed through the five propositions A syllogism consisting of five propositions is rather for explaining a matter to a child than for representing the actual state of the mind in making an inference [80]

Aristotle's syllogism is a purely formal and deductive form of inference We have seen that, in Indian thought, a distinction between deductive and inductive inference is not made An inference in Indian thought is both formally and materially true Aristotle's syllogism begins with the major premise, and then it proceeds to apply the universal proposition to a particular case According to the Jainas and also in all Indian thought, we first get the *pratijñā* or the proposition to be proved From the psychological point of view, we do not, in fact, proceed in Aristotle's way We do not begin with the universal propsition and then apply the universal proposition to a particular case, unless it is to be a deliberate form of reasoning formally presented It would be psychologically correct to say that we first begin by stating what is to be proved, and then find reasons to prove it Aristotle's syllogism has more of a logical than a psychological status W E Johnson says that it is commonly supposed that premises are propositions first presented in thought, and that the transition from these to the thought of the conclusion is the last step in the process 'But, in fact, the reverse is usually the case, that is to say we first entertain in thought the proposition that is technically called the conclusion and then proceed to seek for other propositions which would justify us in asserting it

77 Radhakrishnan (S) *Indian Philosophy* Vol II p 81

78 *Daśavaikālika Niryukti* 50 As quoted in *Pramāṇamīmāṃsa* I, 9

79 *Pramāṇamīmāṃsā* Book II, 1 to 15

80 Das Gupta *History of Indian Philosophy* Vol I, p 185

A conclusion may, on the one hand, first present itself to us as potentially assertable, in which case the mental process of inference consists in transforming what was *potentially* assertable into a proposition *actually* asserted'[81]

81 Johnson (W E) *Logic* Part II, Ch I, pp 1 & 2

CHAPTER VII

SUPERNORMAL PERCEPTION

Introduction

The nature of empirical experience was discussed in the last chapter It was, by the earlier philosophers, called *paroksa* Later philosophers, trying to adjust the original views with the prevailing concepts of *pratyaksa* and *paroksa* called it *samvyavahāra pratyaksa* and made it arise from the contact of the sense organs and the *manas* But the empirical way of knowing may, at the most, give us knowledge of the things of the world through the instrumentality of the sense organs and mind As such, according to the Jainas, it is not a direct experience It does not give us knowledge of reality The Jainas believe that the soul is pure and perfect, and omniscient But through the obscuration of the soul by the *karma*, the knowledge that the soul has is obscured and vitiated Once the veil of *karma* is removed, the soul knows directly That is *pratyaksa* The knowledge acquired through the sense organs and the *manas* is knowledge obtained indirectly by means of external sources The Jainas, therefore, said that such experience is *paroksa*, or what they later called *samvyavahāra pratyaksa* We have, however, the possibility of getting direct and immediate experience without the instrumentality of the sense organs and the *manas* The soul directly cognizes as it is freed from the veil of *karma* This is *pratyaksa* It may be called supernormal perception Modern psychical research recognizes some such phenomenon and calls it extra-sensory perception

The problem of supernormal experience is not new Indian philosophers were aware of supernormal perception Many of them made a distinction between *laukika pratyaksa*, empirical perception, and *alaukika pratyaksa*, supernormal perception All schools of Indian philosophy except the Cārvākas and the Mīmāmsakas believe in supernormal perception The Cārvākas do not accept any other source of knowledge than sense perception The Mīmāmsakas also deny the possibility of supernormal perception, because, according to them, the past, the future, the distant and the subtle can be known only by the injunctions of the Vedas Supernormal perception is not governed by the general laws of perception It transcends the categories of time, space and causality The facts of empirical experience cannot explain the nature of supernormal perception However the Indian treatment of supernormal perception is more descriptive than explanatory It is not based on experimental analysis The Indian philosophers arrived at the conception

of supernormal perception through speculation and the higher intuition. Very often, the whole theory of the gradation of supernormal perception is built on the basis of the transcendental experience of the seers The Nyāya Vaiśesika, the Sāmkhya Yoga, the Vedānta, the Buddhist and the Jaina schools of thought believe in supernormal perception, although they have given different descriptions of the experience According to the Nyāya Vaiśesika schools, perception is distinguished into *laukika* and *alaukika*. On the basis of the philosophy of the *prakrti* and the *purusa*, the Sāmkhya philosophers maintain that supernormal perception can cognize past and future objects, which are really existent as respectively sub-latent and potential Patañjali thinks that ordinary mental functions can be arrested by constant practice of meditation and concentration *Samādhi* is the consummation of the long and arduous process of inhibition of the bodily functions, concentration and meditation The Vedāntists accept Patañjali's view regarding supernormal perception

In the West, modern scientists have begun to take more interest in such perception, although they call it paranormal, and not supernormal perception It is also often called extra-sensory perception The Society for Psychical Research has carried out investigations on this problem It is now recognized that cognitions independent of the senses are possible Such phenomena as clairvoyance, telepathy and the like have been recorded to prove the possibility of the occurrence of extra-sensory perception But such psychical research is entirely modern [1] It was founded in 1882 Myers and Henry Sidgwick were the nucleus of research in this field William Barret, the physicist, was also a member of the Society Many eminent philosophers and psychologists took keen interest in the investigation of extra-sensory perception Prof Bergson, C D Broad, L P Jacks, H H Price and R H Thouless are among the supporters of this type of investigation However, interest in the study of extra-sensory perception may be said to be very old The first recorded psychical research in the West was carried out under instructions from King Croesus in the sixth century B C Wanting to test the powers of the Oracles, he sent embassies with instructions to ask what the King was doing at that time [2] But it was only in the 19th century that systematic study of this problem was started with the establishment of the Society for Psychical Research The aim of the Society is to approach these various problems without prejudice or prepossession of any kind and in the spirit of exact and unimpassioned enquiry

Going back to the Indian philosophers of the past, we find that there has been a general recognition of the fact that normal perception through sense organs and mind is not all In the Nyāya Philosophy,

1 Tyrrell (G N M) *The Personality of Man*, p 46, (Pelican)
2 Flew (A) *A New Approach to Psychical Research*, Ch II, p 6

specially beginning with Gangeśa, the distinction between normal and supernormal perception has been recognized However, in *alaukika pratyaksa* the objects are not actually present to the senses, but are conveyed to it through an extraordinary medium There is, in this, a special sense object contact, *alaukika sannikarsa*[3] There are three types of supernormal perception, *(i) sāmānya laksana*, in which we perceive the generality in the individual members of a class, for instance, we perceive the universal potness in the perception of individual pots *(ii) jñāna-laksana*, in which we perceive an object which is in contact with the senses, through previous knowledge of itself, for example, when we see a piece of sandalwood there is also a perception of fragrance This may be compared to what Stout, Ward and Wundt call 'complication'[4] But it would be difficult to call such forms of perception supernormal In fact, some psychologists would say it is a kind of implicit inference, although Stout, Ward and Wundt would think of it as a form of perception However, such perception does not involve anything supernormal *(iii) yogaja pratyaksa*, intuitive apprehension of objects, past, future and distant, through some supernormal powers generated in the mind by spiritual concentration[5] For those who have attained spiritual perfection such perception is constant and spontaneous In the case of others who are yet to reach perfection, it requires concentration or *dhyāna*, as a condition Chatterjee says that we may mention, as cases in point, the theological ideas of eternity and omniscience or intuition in the philosophy of Spinoza and Schelling *Yogaja pratyaksa* has a great bearing on the phenomena of extra-sensory perception like Clairvoyance, Telepathy and Pre-cognition However, *yogaja pratyksa* may be called supernormal perception Jayanta describes the nature of yogic perception The yogi can perceive a past, future, distant or subtle object He can perceive even *dharma*[6] Jayanta Bhatta says that a yogi perceives all objects in a single intuition Similarly, Bhāsarvajñā defines yogic perception as direct and immediate apprehension of objects which are distant or past, future or subtle[7] Praśastapāda divides yogic perception into two types, *(i) yukta pratyaksa*, in which we get perception in ecstasy, and *(ii) viyukta pratyaksa*, which implies perception of those who have fallen off from ecstasy Bhāsarvajña also makes a similar distinction Those who are in a state of ecstasy can perceive their own selves, the selves of others, *ākāśa*, time, atoms and *manas* Those who have fallen off from ecstasy can perceive subtle, hidden or remote things through the contact of the *self, (manas)*, and senseorgans, with the object by means of a peculiar power due to

3 Chatterjee (S C) *The Nyāya Theory of Knowledge*, Ch IX, p 209

4 *Ibid* p 220

5 *Ibid* p 227—*Yogābhyāsajanito dharmaviśesah*

6 *Nyāyamañjari* p 107

7 *Nyāyasāra* p 3

meditation[8] Similarly, Neo-Naiyāyikas make a two-fold distinction, between *yukta pratyaksa* and *vyanjana pratyaksa* In the latter case, the individual getting the perception is still endeavouring to attain union with the supreme being. Praśāstapāda mentions *ārsa-jñāna* as a kind of yogic perception It is an intuitive apprehension of all objects, past, present and future, and also of *dharma* owing to the contact of *manas* with the *self* and a peculiar power, *dharma*, born of austerities It is sometimes said that *ārsa-jñāna* and yogic perception are different, because *ārsa-jñāna* is produced by the practice of austerities, while yogic perception is produced by meditation However, both are supersensuous in nature

But the Mīmāmsakas and the Jainas do not accept the possibility of yogic perception because it cannot be either sensuous or non-sensuous It cannot be sensuous, as it is not produced by contact of the sense organs and the *manas* Sense organs cannot come into contact with the past, the future and the distant object Nor can yogic perception be produced by the mind alone, as the mind, without the help of the sense-organs, is capable of producing only mental states like pleasure and pain It is not also possible to maintain that the external sense organs can apprehend objects, without coming into contact through the powers of medicine, incantation and the practice of austertities, because the senses are limited in their sphere They cannot transcend their natural limitations even when they attain the highest degree of perfection by intense meditation Therefore, the Mīmāmsaks say, yogic perception cannot be sensuous, as sensuous knowledge cannot apprehend past, future and distant objects Similarly, if yogic perception can perceive what was apprehended in the past, it would be mere recall or a form of memory But if it cognizes more than what was perceived in the past, it is illusory, as it apprehends something which has no real existence If yogic perception were perceptual in character, it could not transgress the general conditions of perception, as it must be produced by the contact of the sense organs with the object

The Jainas also do not accept the possibility of yogic perception as presented by the Nyaya Vaisesika Schools The Jainas say that sense organs are limited in their sphere and cannot be freed from their inherent limitations Even the sense organs of the yogis cannot apprehend supersensible objects like atoms The peculiar power of *dharma* born of meditation cannot be of any use to the sense organs in directly apprehending supersensible objects *Dharma* can neither increase the capacity of the sense-organs, nor can it merely assist the sense organs in their function of apprehending supersensible objects Sense organs in themselves cannot apprehend supersensible objects

8 *Praśastapādabhasya* p 187

The Nyāya Vaiśesika Schools maintain that the *manas* can get simultaneous cognition of objects past, future and distant with the help of *dharma* born of *yoga* But the Jainas say that the *manas*, which is regarded as atomic in nature, can never enter into relation with all the objects of the world simultaneously But it is contended that, if the mind of a yogi can apprehend objects not simultaneously but successively, yogic perception would not be different from ordinary perception Therefore, the Jainas say, yogic perception in the sense presented by the Nyāya Vaiśesika is not possible Perception of all the objects of the world can never be produced by the external sense organs or by the mind even though aided by the peculiar power of *dharma* born of meditation [9] The Jainas contend that it is the *self* which is responsible for such cognition The *self* apprehends all the objects of the world independently of the sense organs and the mind when the veil of *karma* is progressively removed

The Jaina View of Supernormal Perception

The Jaina account of supernormal perception is based on the Jaina metaphysics of the soul In its pure state, the soul is perfect, simple and unalloyed It is pure consciousness But when it gets embodied, it moves in the wheel of *samsāra* and experiences the things of the world and its pleasures and pains The sense organs are the windows through which the soul gets empirical experience They are the instruments by which empirical experience is possible But when the veil of *karma* is removed, the soul gets pure experience The Jainas believe that the soul is inherently capable of perceiving all things with all their characteristics But this capacity is obstructed by the *karmas* which obscure real knowledge Because of such obstruction by the knowledge-obscuring and other *karmas*, it gets only an imperfect knowledge of the objects of the world The nature and extent of the knowledge the soul gets will depend on the nature and extent of the obscuring veil But the knowledge of the soul is never totally obstructed by the veil, even as the light of the sun or the moon is never totally obstructed even by the darkest clouds [10] There is always some glimpse of the external world however imperfect it may be Complete destruction of the veil of *karma* gives perfect knowledge and omniscience

On this basis, the Jainas divide *pratyaksa* into two kinds, (i) *samvyavahāra pratyaksa*, empirical perception which was originally called *paroksa*, and (ii) *pāramārthika pratyaksa*, transcendental perception Empirical perception is what we get in every day experience It is of

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9 *Prameyakamalamārtanda* p 5

10 *Nandisūtra*, 42

three kinds, it may arise (i) from the sense organs, (ii) from the mind, which is a quasi-sense organ, or (iii) from the sense organs and the mind But as for transcendental perception, the *self* gets this experience without the help of the sense organs and the mind It gets the experience directly when the veil of the *karma* obscuring the knowledge is removed This is a form of supernormal perception It was called *pratyaksa*, because it is the direct experience of the soul without the instrumentality of the sense organs and the mind It is of two kinds (i) imperfect, incomplete, or *vikala*, and (ii) perfect, complete, or *sakala* *Vikala* is divided into two types, (i) *avadhi* (clairavoyance) and (ii) *manahparyāya* (telepathy) Perfect transcendental perception is omniscience It is *kevala* This is the stage of supernormal perception It is the perfect knowledge of all the objects of the world through the complete destruction of the relevant obscuring *karmas* It is like the divine omniscience presented by the Nyāya Vaiśesika schools and by Patañjali But the Jainas do not believe in the existence of God For them, the soul itself is perfect and divine and each individual soul can attain perfection and omniscience by completely destroying the *karmic* matter which is an obstacle to the perfect knowledge When the veil of *karma* is destroyed, the soul realizes its omniscience [11] According to the Jainas, the soul is inherently capable of cognizing all things together with all their characteristics irrespective of spatial or temporal distinctions It is only because of the *karmic* veil that this capacity is obscured But it is possible that the veil of *karma* may not all be destroyed although the relevant knowledge-obscuring *karma* may be removed Such annihilation of *karma* may be by degrees According to the degree of annihilation of *karma*, the degree of supernormal perception also varies Omniscience occurs when there is complete destruction of the obscuring veil But when there are differences in the destruction of these veils the two varieties of supernormal perception, *avadhi* and *manahparyāya*, occur However, the Jainas believe that supernormal perception in the form of *avadhi*, *manahparyāya* and *kevala* are not dependent on the instrumentality of the sense organs and the *manas* Only normal perception needs the help of the sense organs and the *manas* [12] The sense organs have no function in the case of supernormal perception It may also be said that, even in the case of empirical perception like *mati* and *śruta*, the rôle of the sense organs is subordinate, because the sense organs serve to eliminate the veil of *karma* which obscures the knowledge of the object However, they have their own function because in the absence of these, empirical perception would not be possible Bhūtabali, in his *Mahābandha*, sees the instrumental rôle of the *manas* in the *manahparyāya jñāna* But this view need not be taken as representative [13]

11 *Pramāṇanayatattvāloka of Devasūri* Ch II 415

12 *Tattvārthasūtra*, 14

13 *Mahābandha* I, 24 (Kashi 1947 Edition)

Akaḷanka interprets, in this case, *manas* as *Ātman* In this sense, the Jaina view of supernormal perception is different from the *alaukika pratvaksa* of the Naiyāyikas. The forms of *alaukika pratyksa* are produced by supernormal contact, *alaukika-sannikarsa* In this, there is a special type of contact with the sense object But the Jainas do not accept such a special type of sense object contact The sense organs are limited in sphere They do not have the capacity of coming into contact with supersensible objects The sense organs have no function in the case of supernormal perception, as they cannot cognize the past, future and distant objects Therefore, empirical perception signifies direct and immediate apprehension of gross objects produced by the contact of the organs with the objects determined in time and space and by merit *(punya)* and demerit *(pāpa)* Supernormal perception is direct and immediate cognition of all objects past, future and distant Recent psychical research shows that those who are endowed with supernormal powers grasp the secret thoughts of other individuals without using their sense organs They also perceive events more or less remote in space and time In supernormal perception, trans-spatial and trans-temporal relations are apprehended There is an elsewhere' in which the order of things would be different We do not come across the 'elsewhere' by means of empirical experience, because, in this, we become aware of the external world by means of bodily sense organs which have been specially developed to reveal it and nothing else We may understand this when we realize that our organs of sense perception are narrowly specialized to serve biological and practical ends, and that our normal consciousness is also largely specialized [14]

We have seen that the Jainas say that supernormal perception is really *pratvaksa*, or direct apprehension obtained by the soul when all the impediments are removed Supernormal perception has been classified as (i) *avadhi*, (ii) *manahparyāya*, and (iii) *kevala* The distinction between *vikala* and *sakala pratyaksa* has also been mentioned The three forms of supernormal perception mentioned by the Jainas may appear, as Tatia points out, to be dogmatic However, it may be noted that the vital source of the Jaina theory of knowledge lies in this conception If the soul has the capacity to know, it must know independently of any external conditions Distance, spatial or temporal, is not a hindrance to the soul [15]

C D Broad says that forms of supernormal cognition may be classified as follows We may divide them into (i) supernormal cognitions of contemporary events or of contemporary states of mind, and (ii) supernormal cognitions of past or future events or past or future things or persons Under the first heading, we can include clairvoyance and

14 Tyrrell (G N M) *The Personality of Man*, p 265, (Pelican)

15 Tatia (N) *Studies in Jaina Philosophy* p 62

telepathy[16] In the second type, we may include supernormal cognition of past events, for instance, knowledge of the past as claimed by Miss Moberley in her book *An Adventure*, and supernormal precognition, knowledge of the future, as is claimed by Dunne in his book, *An Experiment with Time* The analysis here will be restricted to the study of clairvoyance and telepathy with reference to *avadhi* and *manahparyāya* Then a brief survey of omniscience, or *kevala jñāna*, as the Jainas have presented it, will be given Other forms of extra-sensory perception like mediumship, automatic writing and poltergeists have been of interest to modern psychical research Flew analyses the forms of extra-sensory perception into spontaneous phenomena, psychical and mental, and mediumship, physical and mental However, these forms of extra-sensory perception do not come within the purview of this discussion

Avadhi

Avadhi jñāna is a form of supernormal perception It is *pratyaksa*, or direct perception, because the soul gets direct apprehension of the object without the help of the sense organs and the mind In this, we apprehend objects which are beyond the reach of the sense organs and the mind In this, we apprehend objects which are beyond the reach of the sense organs However, in *avadhi* we perceive only such things as have form and shape[17] This can be compared with clairvoyance, which modern psychical research calls a form of extra-sensory perception Things without form, like the soul and *dharma*, cannot be perceived by *avadhi* Clairvoyance of this type differs with different individuals according to their capacity, developed by them through their merit Owing to the varying degree of destruction and subsidence of the *karmic* veil the individual can perceive supersensible objects in different degrees The highest type of *avadhi* can perceive all objects having form The Jainas interpret the capacity of perception in *avadhi jñāna* in terms of space and time They have developed a technique of mathematical calculation of the subtleties of time and space Regarding space, *avadhi jñāna* can extend over a space occupied by innumerable *pradeśas* of the size of the universe With reference to time, it can perceive through innumerable points of time both past and future *Avadhi* can perceive all modes of all things But it cognizes only a part of the modes of things according to the degree of intensity of perception The lowest type of *avadhi* can perceive an object occupying a very small fraction of space, e g , the *angula* Regarding capacity in terms of time, the lowest type of *avadhi* can last only a short time, a second It cannot extend beyond a second Similarly, it cannot know all the modes of objects It can only cognize a part of the modes[18] Thus, *avadhi*, which

16 Broad (C D) *Religion Philosophy and Psychical Research*, p 29

17 *Tattvārthasūtra* I 28 *Rūpisvavadheh* also *Āvaśyaka Niryukti* 45, and *Nandisūtra* 46,

18 *Nandisūtra* 16

may be compared to clairvoyance, differs with different individuals according to the capacity of the persons perceiving The capacity is, in turn, determined by the relative merit acquired by the persons

Modern psychical research has provided many examples of such persons Experimental investigation has been carried out in this field For instance, Prof Rhine and his colleagues at Duke University carried out experiments with a pack of zener cards and arrived at astonishing results Perception beyond an opaque wall, precognition and foreknowledge have been of great interest to para-psychology[19] Even Kant was greatly interested in ostensible clairvoyance, by Swedenborg, with reference to Queen Lovisa in 1761 and his clairvoyant cognition of the Stockholm fire[20] Dreams which foretell events may also be included in such forms of perception The Society for Psychical Research has collected many such instances For instance, the Hon J O Connor, about ten days before the *Titanic* sailed, saw in a dream that the ship floating in the sea, keel upwards, and her passengers and crew swimming around In another case, a lady dreamt that her uncle had fallen from horseback and died She also dreamt he was brought home in a wagon 'There in my dream the wagon came to the door And two men, well-known to me, helped to carry the body upstairs I saw the man carrying the body with difficulty, and his left hand hanging down and striking against the bannisters, as the men mounted the stairs' Later, the dream recurred thrice, with all the details unchanged This was followed by her uncle's death in exactly the same situation as she had dreamt, and he was carried home in the same way with his left hand hanging and striking against the bannisters as the men mounted the stairs[21] In our country, we get many instances of dreams and such forms of perception A scientific study of such forms of perception is necessary

To turn to ancient Indian thought, Praśastapāda and Jayant Bhatta say that, though *yogis* can perceive all objects past, future and distant, even ordinary persons like us are not entirely devoid of such perception Some men have the power of perceiving the future On rare occasions, we get a flash of intuition, as for instance, when a girl perceives in her heart of hearts that her brother will come to-morrow[22] These may be included under the form of *avadhi* perception However, they cannot be called supernormal perception They are extra-sensory or para-normal perception, yet not abnormal mental phenomena The Jainas also do not make *avadhi* a

19 Rhine (J B) *New Frontiers of the Mind* p 41, (Pelican)

20 Broad (C D) *Religion Philosophy and Psychical Research* Kant and Psychical Research

21 Tyrrell (G N M) *The Personality of Man* p 77 (Pelican)

22 *Praśastapāda Bhāsya* p 258, as quoted in *Indian Psychology of Perception*, Ch XVIII, Book VII

form of supernormal perception in this sense, because, according to them, beings living in hell, and even the lower organisms, are capable of possessing *avadhi*, although, in general it may be included in the supernormal perception. Modern psychical research is also aware of the possibility of such a form of perception in the higher vertebrates.[23] In the commentary on verse V of *Dravyasaṁgraha*, Ghoshal says that *avadhi jñāna* is psychic knowledge which is directly acquired by the soul without the instrumentality of the mind and the senses. He cites knowledge in a hypnotic state as an instance of *avadhi*. But it would not be correct to compare *avadhi* to knowledge in a hypnotic state, although the description of *avadhi* as direct cognition without the help of the sense organs and the mind would be correct. The hypnotic state is a state of hyper-suggestion and an abnormal mental state. In this sense, *avadhi* cannot be called a state of hyper-suggestion and it would not be proper to reduce *avadhi* to an abnormal mental state.

The Jainas have given a detailed analysis of *avadhi* and of beings who possess *avadhi*. According to the Jainas, heavenly beings and beings in hell possess *avadhi* naturally. They are endowed with it from birth. It is *bhava pratyaya* in them, possibly because they do not possess bodily sense organs like human beings.[24] In the case of human beings as well as five-sensed lower organisms, *avadhi* is possible owing to the destruction and subsidence of the relevant veil of *karma*.[25] It is acquired by merit. Therefore, it is called *gunapratyaya*.[26] Thus, human beings and the lower organisms have to acquire *avadhi* by effort, while the beings residing in heaven and hell get it naturally.[27] *Viśesāvaśyakabhāṣya* gives a detailed description of *avadhi* from fourteen points of view and its varieties with reference to temporal and spatial extension.[28] *Pañcāstikāyasāra* divides *avadhi* into three types with reference to spatial extension, *deśāvadhi*, *paramāvadhi* and *sarvāvadhi*. All three are conditioned by psychic qualities, but *deśāvadhi* is also conditioned by birth in the case of heavenly beings and beings in hell. *Deśāvadhi* is a very limited faculty of perceiving things beyond sense perception. *Paramāvadhi* is a higher form of perception which is not confined to a limited space and time. But *sarvāvadhi* is the perfect faculty which perceives all things. *Deśāvadhi* is divided into two types, *gunapratyaya* and *bhavapratyaya*, with their subdivisions.[29] *Nandisūtra* gives six varieties of *avadhi* which are possible in the case of homeless ascetics. It also mentions subdivisions

23 Rhine (J. B.) *Extra-sensory Perception* p. 177

24 *Sthānāṅgasūtra* 71. *Tattvarthasūtra*, I, 22. *Nandisūtra* 7

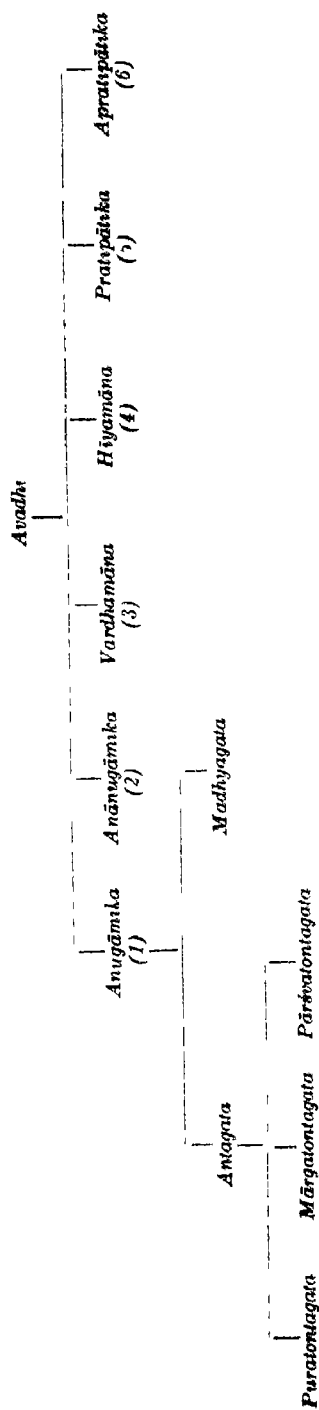
25 *Tattvārthasūtra* 173 and *Bhāṣya—Kṣayopaśama nimitta*. *Nandisūtra*, 8. *Sthānāṅgasūtra* 71

26 *Viśesāvaśyakabhāṣya* 572. *Nandisūtra* 63

27 *Ibid* 574. *Tattvārtharājavārttikā* I. 22. 3

28 *Ibid* 569

29 *Pañcāstikāyasāra* 44 and Commentary

TABLE No VIII

of these[30] A table of classification of *avadhi* according to the *Nandisūtra* is given in table No VIII The first variety, for instance, is *anugāmi avadhi* It is clairvoyance, which continues to exist even if a person moves elsewhere *Ananugāmi avadhi* is the opposite of this *Vardhamāna avadhi* is that which increases in extensity and extends in scope and durability as time passes *Hīyamāna* is opposed to this *Avasthita* is a steady form of *avadhi* which neither increases nor decreases in scope or durability The sixth form of *avadhi* is *anavasthitha* It sometimes increases and sometimes decreases in intensity Such classifications of *avadhi* with their subdivisions have a psychological significance It is possible that clairvoyant cognition may differ in different individuals in respect of intensity and durability of experience and the extent of the objects perceived by the individual There are instances in which some persons get occasional flashes of perception, as in the case of a girl who got the intuition that her brother would come In some other cases, clairvoyance is more or less steady, and it recurs very often The Society for Psychical Research has collected many instances of such perceptions[31] The scope of clairvoyant cognition with reference to the objects cognized varies with the sensitiveness and extent of contact of the subliminal consciousness Different persons can perceive different objects with different degrees of clarity according to their capacities The Jainas have said that the lowest type of *avadhi* can perceive objects occupying a very small fraction of space like the *angula* The highest type of *avadhi* can perceive all objects having form However, *avadhi* cannot perceive all the modes of all things[32]

The psychic phenomenon called 'French sensitiveness', sometimes called as 'psychometry', may be included as a form of *avadhi*, although in psychometry the mind and the sense organs do play their part There may be physical contact with the object However, physical contact serves only as an occasion to create a 'a psychical rapport' The rôle of the object coming in contact with the hand of the person would seem to be rather to canalize the sensitive faculty and concentrate it in the right direction, though we have no information as to how it happens[33] Dr Osley gives many instances in which persons having this capacity have given detailed descriptions of the past or the future by merely touching the hand or even by touching a paper written by the person He g ves an experience which he had An event in his life, an accident, was foretold twice The man who described the future accident gave a vivid picture of the accident, of the man, a baker, bleeding and things strewn about The

30 *Nandisūtra* 15 *Tattvārthasūtra Bhāsya* I, 23
31 Tyrrell (G N M) *The Personality of Man* Ch XX XXI
32 *Viseṣāvaśyakabhaṣya* 685
33 Tyrrell (G N M) *The Personality of Man*, Ch XX pp 177—179

accident occurred exactly as it was predicted Tyrrell cites many such instances Dr Osley says that, if we are to take the language of the permanently metagnomic subjects literally, one might think that they perceive realities as if by a paranormal optical sense outside time and space They grasp from an ultra-material plane and see things as they would occur [34] There seems to be one major difference between the description of perception given by Dr Osley and the nature of *avadhi* We have seen that *avadhi* does not make use of the sense organs and the mind But Osley describes the phenomenon as perception of realities 'as if by a paranormal optical sense outside space and time' This is not very clear However, the optical sense outside time and space need not refer to the functions of the physical sense organs Moreover, Dr Osley says that the perception is as if by a paranormal optical sense C D Broad admits that clairvoyance is non-sensuous perception He interprets an experiment with red cards in the following terms "We shall have to suppose that the clairvoyant has, from infancy, been continuously though unconsciously apprehending directly all those objects which he has also been cognizing indirectly through sight and touch Then we can suppose that an association would be set up between, e g the conscious experience of seeing an object as red and the unconscious experience of directly apprehending it as having that intrinsic characteristic which makes it selectively reflect red-stimulating light-waves Suppose that, on some future occasion, such an object, though no longer visible, is still being directly but unconsciously apprehended by the clairvoyant He will still apprehend it as having that intrinsic characteristic, whatever it may be, which has now become associated in his mind with the visual appearance of redness Consequently, the idea of it as a red-looking object will arise automatically in his mind, and he will announce that the unseen object is red" [35] Whatever may be the explanation of clairvoyant cognition, it cannot be denied that such experiences are facts Eminent philosophers like Sidgwick, Price and Broad have admitted the existence of such clairvoyant experiences

Manahparyāya

Now we come to the next form of supernormal perception, called by the Jainas *manahparyāya* [36] The Jaina concept of *manahparyāya* is based on their doctrine of mind We have seen that mind, according to Jainas, is a particular material substance composed of a specific form of *varganās*, or group of atoms It is composed of an infinite number of atoms called *manovarganās* There are fine atoms The finer atoms form

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34 Tyrrell (G N M) *The Personality of Man* Ch XX, pp 177—179

35 Broad (C D) *Religion Philosophy and Psychical Research* p 45

36 *Āvaśyakaniryukti* 76

the *karma*. Next in fineness come the *manovarganās* They occupy less space The other groups of atoms form the subtle and the gross body The modes of the mind are different states emerging into acts of thought Every state of our mind is a particular mode of mind As our states of thought change, the mind also changes Every mode of thought is reflected in the mind substance Direct experience of such modes of mind substance working in other individual minds is called *manahparyāya* *Āvaśyakaniryukti* gives a brief description of the nature of *manahparyāya* knowledge *Manhparyāya* cognizes objects thought of by the minds of other people [37] In the *Viśesāvaśyakabhāsya*, we get a description of the *manahparyāya jñāna* A person possessing *manahparyāya* directly cognizes the mental states of others without the instrumentality of the sense organs and the mind [38] We have seen that Bhūtabali admits the instrumentality of *manas* in this experience, but his view is not generally accepted

In Western thought, such a form of cognition was called 'thought transference' But, as Tyrrell says, since the name gives a wrong suggestion that something was being transferred through the space, it is not adequate Myers coined the phrase 'telepathy' for describing such experiences Tyrrell gives many instances of telepathic cognition He also mentions instances of collective telepathy which he calls collective telepathic calculations [39] In *Apparitions*, published by the Society for Psychical Research, many interesting examples of telepathic cognition are recorded It is not possible to go through the many instances of telepathy which Western scientists have recognized

Coming back to the Jaina view, we find that *manahparyāya*, telepathic experience, is not easy to get and is not common A certain physical and mental discipline is a condition for getting their power of intuition In the *Avaśykaniryukti* we read that *manahparyāya* is possible only for human beings of character, especially for homeless ascetics Human beings acquire this capacity through merit and by the practice of mental and moral discipline [40] In the *Nandisūtra* there is a detailed description of the conditions of the possibility of *manahparyāva* in the case of human beings [41] *Manahparyāya* is possible only in this *karmabhūmi*, this world of activity, this empirical world Even the gods are not competent to possess *manahparyāya* Only gifted human beings with a definite span of life can acquire this faculty Some conditions have to be fulfilled and some discipline has to be undergone by human beings for acquiring *manahparvāya* The conditions for the possession of

37 *Āvaśyakaniryukti* 76
38 *Viśesāvaśyakabhāsya* 669, 814
39 Tyrrel (G N M) *The Personality of Man*, p 65, (Pelican)
40 *Āvaśyakaniryukti* 76
41 *Nandisūtra* 39—44

manahparyāya are (i) the human beings in the *karmabhūmi* must have fully developed sense organs and a fully developed personality. They must be *paryāpta*; (ii) they must possess the right attitude, *(samyagdrsti)*. As a consequence, they must be free from passion, (iii) they must be self-controlled and they must be possessed of *rddhi*, extraordinary powers

Thus, telepathic cognition is not possible for all beings. Only human beings can acquire it It is conditioned by a strict physical and mental discipline The person possessing it must necessarily be a hermit, or homeless ascetic His character must be of a high type The discipline and the occult powers attainable by the *yogis* mentioned in the Patañjali Yoga are analogous to the qualifications of human beings possessing *manahparyāya* But Siddhasena Divākara says that lower organisms possessing two or more sense organs are also found to strive by means of attraction or repulsion, therefore, they are possessed of mind It would, hence, be proper to extend the scope of *manahparyāya* to such lower organisms It would be improper to postulate *manahparyāya* as a separate category of knowledge[42] In this connection, we may refer to modern psychical research in telepathy described by Rhine Rhine says that it is possible to find instances of the possibility of such perceptions in the case of lower animals, especially the higher vertebrates Several experiments have been carried out in this connection and several instances have been quoted[43] But the traditional Jaina view does not accept the possibility of *manahparyāya* in the case of the lower animals It restricts the scope of such cognition to human beings

Objects of Cognition in *Manaḥparyāya*

Although there is among the Jainas, general agreement on the nature of *manahparyāya*, the Jaina philosophers are not agreed regarding the objects of the cognition possible in this experience Various views have been presented Jinabhadra states that one who possesses *manahparyāya* perceives the states of mind of others directly But external objects thought of by the minds of others are only indirectly cognized through inference[44] Hemacandra, commenting on the statement of Jinabhadra, says that a man may think of a material object as well as of a non-material object But it is impossible to perceive a non-material object directly except by one who is omniscient Therefore, one who is possessed of *manahparyāya*, telepathic cognition, knows external objects thought of by others only indirectly, by means of inference[45] The function of telepathy is restricted to perceiving mental states, like thoughts and ideas, of others External objects are the content of these mental

42 *Niścayadvātrimśikā* 17

43 Rhine (J B) *Extra sensory Perception*, p, 220

44 *Viśeṣāvaśyakabhāṣya* 814

45 Commentary on *Viśeṣāvaśyakabhāṣya*, 814

states They are not possible to be cognized directly in *manahparyāya* They are known indirectly by inference, as they are associated through the media of states of the mind, although such knowledge is not of the type of ordinary inference Hemacandra also supports this view of restricting telepathy to cognition of mental states of others He says that cognition of external objects thought of by others is indirect, as it is by necessary implication from the perception of thoughts which are not possible without objects[46] On the other hand, Umāsvāti says that *manahparyāya* cognizes states of mind and material objects thought of by the the minds of others The mind undergoes a process of change while thinking, and the object content of this process is intuited by *manahparyāya*[47] One who is possessed of *manahparyāya* knows only a fractional part of the objects of clairvoyance He knows a greater number of the states of the material objects that form the content of the invisible process of the mind Thus, according to Umāsvāti, the scope of telepathy is larger, because it includes cognition of external objects thought of by others in addition to mental states But Siddhasena Divākara seems to interpret this statement of Umāsvāti in the light of the view presented by Jinabhadra He says that objects are cognized indirectly through inference However, this does not seem to be the proper interpretation of Umāsvāti, because we have seen that objects forming the content of the mind are directly cognized The statement of Umāsvāti lends itself to this interpretation We now come to a third view regarding the object of *manahparyāya* This view is presented by Pūjypāda Devanandi He says that external objects are also intuited by *manahparyāya* *Manahparyāya* is a form of *pratyakṣa* in the traditional sense of the term It is independent of the instrumentality of the sense organs and the mind It does not involve inference, which depends on the sense organs such as eyes and also on the information of others[48] According to his view, *manahparyāya* has wider scope, as it cognizes external objects directly We may say it includes *avadhi*, or clairvoyance, also There is agreement as to the nature of *manahparyāya* as *pratyakṣa*, but regarding intuition of external objects there has been a difference of opinion We have seen that Jinabhadra does not accept the possibility of direct cognition of external objects in *manahparyāya* He introduces inference for explaining this kind of cognition Pūjyapāda Devanandi has widened the scope of *manahparyāya* by including direct perception of external objects also Akalanka says that states of the mind are only the media through which external objects are intuited Umāsvāti accepted the direct perception of external objects thought of by others in *manahparyāya*

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46 Commentary on *Pramanamimamsa* I I 18

47 *Tattvārthasūtra Bhāṣya*, I, 29

48 *Tattvārtharājavarttika* I, 25 6–7 Nathmal Tatia has ably discussed this problem from the epistemological point of view in his *Studies in Jaina Philosophy* Ch II

The question of the scope of *manahparyāya* is not psychologically significant Those who accept telepathy as a form of supernormal experience do not make such a distinction Telepathy is primarily concerned with cognition of the thoughts of others It was, therefore, called 'thought transference' In this, the mental states of others are intuited But the objects forming the content of the mental states are not excluded from the scope of telepathic cognition, although it is not explicitly mentioned However, it would also be possible to maintain that cognition of objects forming the content of the mental states may be included in the field of clairvoyant experience, because clairvoyance cognizes objects which are beyond spatial and temporal relations

Classification of *Manaḥparyāya*

Sthānānga recognizes two varieties of *manahparyāya* as *rjumati* and *vipulamati*[49] Umāsvāti makes a similar distinction[50] He says that *rjumati* is less pure and it sometimes falters *Vipulamati* is purer and more lasting It lasts up to the rise of omniscience We also get such an account in *Pañcāstikāyasāra*[51] *Rjumati* gives a direct intuition of the thoughts of others, while in *vipulamati* the process of knowing the ideas of others is manifested in an irregular way Pūjyapāda Devanandi describes the nature of *manahparyāya* as intuition of the objects of the activities of the sense organs[52] He says that *vipulamati* knows less objects than *rjumati*, but whatever it knows it knows perfectly and vividly, *vipulamati* is more penetrating and more lucid than *rjumati* One who is at the ascending stage of his spiritual development has acquired *vipulamati*, while one who is sure to descend in the spiritual scale gets *rjumati manahparyāya*[53] However, telepathic experience is itself possible only for those who have the right attitude, who are free from passions and possessed of *rddhi* 'It seems that the development of conception of *manahparyāya* stopped with Pūjyapāda on one side and Jinabhadra on the other The later Jaina thinkers only took sides with one or the other, but did not make any further development "[54]

We have seen that, in the West, interest in extra-sensory perception is increasing It is being investigated on an experimental basis since the establishment of the Society for Psychical Research Philosophers, psychologists and other scientists have been taking interest in the problem Prof Oliver Lodge carried out experiments on telepathy

49 *Sthānāṅga*, 72
50 *Tattvārthasūtra*, I, 25 and its commentary
51 *Pañcāstikāyasāra*, 45
52 *Sarvārthasiddhi*, I 25
53 *Ibid* I, 24
54 Tatia (N) *Studies in Jaina Philosophy*, p 68

when he was a Professor of Physics Some of the Universities in the West have been taking up the study of the problem Duke University is foremost in this respect At present, the phenomena of extra-sensory perception, like clairvoyance, telepathy, precognition and mediumship have been accepted as facts Even psychologists like McDougall are inclined to believe that extra-sensory perception, like clairvoyance, telepathy and foreknowledge, seems also in a fair way established[55] Even critical investigators, like Lehman, admit the existence of genuine telepathy Dr Mitchell says that telepathy or some mode of acquiring knowledge which for the present we may call supernormal must be admitted, because if we refuse to accept telepathy we stand 'helpless' in the face of well-attested phenomena which could not otherwise be accounted for[56] Prof H H Price is of opinion that evidence for clairvoyance and telepathy is 'abundant and good'[57] Prof Richet admits that telepathic experiences certainly exist[58] Dr Rhine, who has done good work on extra-sensory perception, says that extra-sensory perception in the form of clairvoyance and telepathy is an actual and demonstrable occurrence It is not a sensory phenomenon[59] Prof Myres cites many instances of telepathic intuition He mentions the publication called *Apparitions*, which gives many instances However, Myres says that the evidence for telepathy does not rest entirely on instances of such description Other sources of evidence of the existence of telepathy are possible to any one who has not a strong apriori objection to it[60]

Several theories have been presented to explain the phenomenon of extra-sensory perception Some scientists have explained telepathy in terms of physical radiation It is sometimes said that telepathy is an experience in which an idea present in the conscious mind of *A* is transferred to the conscious mind of *B* by some process resembling that of radio-telepathy Dr Tuckett says that admission of telepathy means nothing more than believing in the existence of vibrations in ether resulting from and acting on nervous matter Similarly, Prof Ostwald has proposed a physical theory of telepathy He says that a transpiration of known psycho-physical energies into unknown forms is projected through time and space and and is received by the percipient But scientists like Myres, Tyrrell, Barrett and Mrs Sidgwick show that such a physical theory of telepathy is not adequate Telepathy is more a psychological fact than a physical phenomenon Tyrrell shows that the physical theory

55 McDougall (W) *Riddle of Life* p 235
56 *London Times*, dated 6th September 1937 as quoted in *Jaina Psychology* p 100 by Mohanlal Mehta
57 *Philosophy* October 1950
58 Richet *Thirty Years of Psychical Research* p 23—24
59 Rhine (J B) *Extra sensory Perception*, p 222
60 Tyrrell (G N M) *The Personality of Man* p 26

of telepathy does not work He has given his own explanation of telepathic experiences on the basis of Myer's explanation He bases his own explanation on the assumption of the subliminal self In telepathy, a signal is made to the conscious by the subliminal self of the percipient, which may take the form of a sensory hallucination or some other form The importance of telepathy lies in the fact that it reveals the subliminal portion of the human personality at work [61] Similarly, more comprehensive theories that embrace clairvoyance and telepathy have been mentioned by Rhine He, however, says that evidence for E S P is good but the theories are bad [62] Flew has mentioned two current theories of telepathy Carrington's theory, and the Shin theory put forward by Thouless and Weisner But there is a strong case for saying that the research situation 'is not right for theory construction' [63] However inadequate may be the explanations given by the various theories mentioned above, psychical phenomena like clairvoyance and telepathy are at present established facts Few deny the existence of such phenomena, and the question whether such phenomena contradict an established law of nature, like the law of causation, is irrelevant 'The apparent contradiction arises because we have decided that anything which happens at all must happen in the world order with which we are familiar' Similarly, we labour under the impression that all that is known is known through the sense organs But, once the idea has been grasped that the organs of sense perception are narrowly specialized to serve biological and practical ends, that our normal consciousness is also specialized and largely focussed on consciousness, that our body is highly specialized, that, in fact, as a psycho-physical being the human individual represents a special adaptation to the sensory world, it becomes easier to contemplate an 'elsewhere', that is to say, a continuation of the order of existence beyond the familiar [64] The psychical phenomena of extra-sensory perception seem to contradict the law of causation, because we have been accustomed to take cause in a narrow and traditional sense The trouble comes from using a concept of cause which has not been adapted to cope with *psi* Russell's suggestion of mnemic causation shows how 'we might adopt the concept cause' We might invent a 'psi-causation' [65]

However, the Western analysis of extra-sensory perception like clairvoyance, telepathy, foreknowledge and mediumship shows that they are experiences possible for man, for some men for all time and perhaps for all men for some time Western scientists make these phenomena paranormal and extra-sensory occurrences A superstructure of experi-

61 Tyrrell (G N M) *The Personality of Man* Ch VII, p 72 (Pelican)
62 Rhine (J B) *Extra sensory Perception* Ch II, p 39
63 Flew (A) *A New Approach to Psychical Research* Ch IX, p 132
64 Tyrrell (G N M) *The Personality of Man*, Ch X p 265 (Pelican)
65 Flew (A) *A New Approach to Psychical Research* p 127

mental investigation is being built for explaining these occurrences in man Western scientists prefer to speak of extra-sensory perception rather than supernormal perception, which we have mentioned with reference to the Indian view of such experiences Rhine says that 'extra-sensory' perception is preferable to 'supernormal perception' because of the ambiguity of the term supernormal in psychology [66] But the Jaina analysis of *avadhi* and *manahparyāya* shows that *avadhi* may be called paranormal, although it is not found in all human beings, while *manahparyāya* may be called supernormal cognition We have seen that *avadhi* is possible even for sub-human beings and lower organisms and also for the denizens of hell These beings get it at birth, while in the case of human beings we acquire it This shows that *avadhi* need not be termed as supernormal cognition But *manahparyāya* is restricted to human beings Even the gods residing in heaven cannot possess it Only those human beings who have fully developed sense organs, who have the right faith and self-control and who are free from passions can get the experience of *manahparyāya* These are the gifted few among human beings Therefore, *manahparyāya* may be included in supernormal perception The Western approach to the problem of extra-sensory perception is analytic and critical A good deal of experimental investigation has been carried out in this connection The Western approach aims at finding experimental justification and a scientific explanation for the existence of such phenomena Western scientists believe that it is possible for ordinary human beings to get such experiences sometimes But the Jaina approach, like all other ancient Indian attitudes, is speculative The ancient seers have experienced or observed the existence of such phenomena The Jaina view of such supernormal perception is based on the intuition of the prophets and the philosophic contemplation of the saints

Kevala

According to the Jainas, the soul in its pure form is pure consciousness and knowledge It is omniscient But it is obscured by the *karmas*, just as the moon or the sun is liable to be obscured by the veil of dust or fog, or by a patch of cloud [67] The obscuration of the soul is beginningless, although it has an end The veil of *karma* obscuring the perfect knowledge of the soul is capable of being removed by the practice of meditation and contemplation and by the practice of self-control, just as the obscuration of the sun or the moon can be removed by a blast of the wind [68] When such a veil of *karma* is removed, omniscience dawns That is *kevala jñāna*, a stage of perfect knowledge and the stage of

66 Rhine (J B) *Extra Sensory Perception* Preface
67 *Pramanamimāmsa* I 15 and Commentary
68 *Ibid*

kaivalya Perfect knowledge is gained by the total destruction of the four types of *karma*—*jñānāvaranīya*, *darśanāvaranīya*, *mohanīya* and *antarāya karmas* The total destruction of the *mohanīya karma* is followed by a short interval of time called *muhūrta*, which is about forty eight minutes After an interval of less than a *muhūrta*, the other *karmas* obscuring *jñāna* and *darśana* and *antarāya karma* are destroyed Then the soul shines in all its splendour and attains omniscience [69] The moment the darkening *karmic* substance of the six *leśyās* is removed, ignorance disappears [70]

The Jainas are agreed on the nature of omniscience Omniscience intuits all substances with all their modes [71] Nothing remains, unknown in omniscience There is nothing to be known and nothing is unknown It is the knowledge of all substances and modes of the past present and future, all in one It is lasting and eternal It is transcendental and pure It is the perfect manifestation of the pure and the real nature of the soul when the obstructive and obscuring veils of of *karma* are removed [72] This omniscience is co-existent with the supreme state of absolute clarity of the life monad! This is precisely the release. No longer the monad dimmed with the beclouding of passions but open and free and unlimited by the particularising qualities that constitute individuality [73] The moment the limitations that make particular experience possible are eliminated, perfect intuition of every thing knowable is attained The need of experience is dissolved in the infinite—this is the positive meaning of *kaivalya* [74] Zimmer says that one is reminded of the protest of the modern French poet and philosopher Paul Valéry in his novel *Monsieur Teste* 'There are people,' he writes, 'who feel that the organs of sense are cutting them off from reality and essence knowledge, a cloud obscuring the essence of being, the shining moon, like darkness or a cataract on the eye! Take it all away, so that I may see' Zimmer writes, 'This outcry, together with the modern theory of knowledge from which it arises, is remarkably close to the old idea to which Jainism holds that of the limiting force of our various faculties of human understanding' [75]

There has been a controversy regarding the nature of omniscience, the nature of *jñāna* and *darśana* at the highest stage of *kaivalya* Some philosophers like Umāsvāti say that in the case of the omniscient, *kevala jñāna* and *kevala darśana* occur simultaneously at every point of time Kundakundācārya states that there is simultaneous occurrence of

69 *Tattvārthasūtra* 10 with Bhāṣya
70 *Sthānāngasūtra* 226
71 *Tattvārthasūtra* 130 with Bhāṣya, also refer *Āvasyakaniryukti*, 77
72 Zimmer (H) *Philosophies of India* p 251
73 *Ibid*
74 *Pramānamīmāmsā* I, 1, 15 and Commentary
75 Zimmer (H) *Philosophies of India*, p 261

both *jñāna* and *darśana* in the omniscient stage just, as the light and heat of the sun occur simultaneously But Siddhasena Divākara does not accept the distinction between *jñāna* and *darśana* in the omniscient stage. Jinabhadra, on the basis of the spiritual texts, supports the view of successive occurrence of *jñāna* and *darśana* in this stage This problem has already been referred to in our discussion on the relation between *jñāna* and *darśana* But the Jainas never questioned the occurrence of omniscience for a purified soul, although they had some differences of opinion regarding the possibility of the occurrence of *jñāna* and *darśana* in this stage

We now come to the criticism of the possibility of omniscience, as presented by the Jainas The Mīmāmsakas are not prepared to accept the possibility of the occurrence of omniscience, and have raised a series of logical objections According to them, omniscience cannot mean knowledge of all the objects in the world, either at the same time or successively Nor can omniscience be knowledge of archetypal forms and not of particular things There can be no omniscience, as the knowledge of the past, present and future can never be exhausted Moreover, if all objects were known in omniscience at one moment, the next moment there would be a state of absolute unconsciousness The omniscient, again, would be tainted by the desires and aversions of others in knowing them

But the Jainas refute the arguments of the Mīmāmsakas against the occurrence of omniscience In the *Pramāṇamīmāmsā* we get such refutation of the Mīmāmsaka arguments Similarly, the Mīmāmsaka objections have been refuted by Prabhācandra in *Prameyakamalamārtanda* The Jainas say that it is not correct to deny the occurrence of omniscience as the Mīmāmsakas do Omniscience is the single intuition of the whole world, because it does not depend upon the sense organs and the mind The pure intuition of the omniscient *self* knows all objects simultaneously, at a single stroke, since it transcends the limits of time and space Prabhācandra says that the Mīmāmsaka objection that the omniscient soul would be unconscious themoment after the occurrence of omniscience is not correct, because it is a single unending intuition For the omniscient, cognition and the world are not destroyed the moment the omniscience is possible [76] Similarly, the Jainas contend, as against the Mīmāmsakas, that the omniscient soul knows the past as existing in the past and the future as existing in the future [77] The omniscient *self* is absolutely free from the bondage of physical existence as past, present and future In fact, the Mīmāmsakas also admit that, in recognition, we apprehend in a flash of intuition, the past as well as the present in one cognition, while *pratibhā jñāna*, in empirical

76 *Prameyakamalamārtaṇḍa* p 67
77 *Ibid*

life, can apprehend the future as future It is, therefore, possible for the white omniscient soul, who is entirely free from the fetters of *karma*, to have a super-sensuous vision of the whole world, past, present and future, by a single unending flash of intuition In the *Pramāṇamīmāṁsā*, the possibility of the occurrence of omniscience is logically proved by the necessity of the final consummation of the progressive development of knowledge [78] There are degrees of excellence in knowledge, and the knowledge must reach its consummation somewhere That is the stage of omniscience, when the obscuring *karmas* are totally annihilated

We may briefly refer to the distinction in 'kevala jñāna' mentioned in the *Nandisutra* *Kevala jñāna* is of two types, (i) *bhavastha*, the omniscience of the liberated who still live in this world, as for instance the omniscience of the Tīrthankaras, and (ii) the omniscience of one who is totally liberated, who may be called *siddha* The *bhavastha* omniscience is, again, of two types (i) *sayogi* and (ii) *ayogi* There are subdivisions in both these Similarly, *siddha* omniscience is of two types, (i) *anantara kevala* and (ii) *parampara kevala*, each having its own subdivisions [79] The classification of omniscience as described in the *Nandisūtra* is given in table No IX This classification of omniscience into various types is not psychologically significant It has possibly arisen out of the general tendency, mentioned elsewhere, for mathematical calculations and minute classifications

The Jaina view of omniscience may be compared to the *Nyāya* view of divine knowledge [80] and the *yoga* theory of divine perception [81] Divine knowledge is all-embracing and eternal It has no break It is a single all-embracing intuition It is perceptual in character, as it is direct and not derived through the instrumentality of any other cognition The divine perception grasps the past, the present, and the future in one eternal 'now The soul, according to the Jainas, is itself divine and perfect, and there is no transcendental being other than the individual soul Each soul is a god by itself, although it is obscured by the *karmic* veil in its empirical state The *kaivalya* state of the individual soul may be compared to the divine omniscience However, the Naiyāyikas and Patañjali admit that man has sometimes a flash of intuition of the future and can attain omniscience by constant meditation and practice of austerities The Jainas believe that, by the removal of obscuring *karmas* by meditation, the threefold path and self-control, the individual soul reaches the consummation of omniscience, the state of *kaivalya* That is the finality of experience But others, like the Naiyāyikas, posit a divine omniscience which is higher and natural and eternal

78 *Pramāṇamīmāṁsā* I 1 XVI and Commentary
79 *Nandisūtra*, Gatha 19—23, and discussion
80 *Nyāyamañjari* p 200
81 *Yogasūtra*, I, 25

TABLE No IX

Keıala jñāna
Bhaıastha
Siddha
Sayogı
Ayogı
Anantara
Parampara
Prathama samaya
Aprathama samaya
IX
1 Tīrtha siddha
2 Atırtha siddha
3 Tīrthakara siddha
4 Atīr'hakara sidha
5 Svayāmbuddha siddha
6 Pratyekabuddha siddha
7 Buddhabhodhita siddha
8 Strīlinga siddha
9 Purusalınga siddha
10 Napumsokalinga siddha
11 Svalinga siddha
12 Anyalinga siddha
13 Grhilinga siddha
14 Eka siddha
15 Aneka siddha
Prathamasamaya
or
Carama samaya
Aprathamasamaya
or
Acarama samaya
of various types as
1 Aprathama samaya
2 Dvi samaya
3 Tri samaya
4 Catus samaya
5 Yāvaddasa samaya
6 Samkhyeya-samay
7 Asamkhyeya samaya
8 Ananta samaya

It is not possible to establish the possibility of omniscience on the basis of the methods of investigation which psychology and the empirical sciences follow However, its logical possibility cannot be denied Progressive realization of greater and subtler degrees of knowledge by the individual is accepted by some psychologists, especially since the introduction of psychical research for analysing the phenomena of extra-sensory perception A consummation of this progressive realization would logically be pure knowledge and omniscience, a single all-embracing intuition

CHAPTER VIII

THE JOURNEY OF THE SOUL

(The Doctrine of *Guṇasthānas*)

Man s history", writes Tagore, "is the history of his journey to the unknown in quest of the realization of the immortal *self*—his soul" [1]

In the Homeric epic, Ulysses descended to the nether world to seek counsel of the departed, and there he saw the shades of his former companions who were killed in the siege of Troy They were but shadows, but each one retained his original form For the Western mind, personality is eternal It is indestructible, not to be dissolved This is the basic idea of the Christian doctrine of the resurrection of the body In the Western thought, the individual retains the individuality he had in his empirical life When the play is over, the persona cannot be taken off, it clings through death and into the life beyond 'The occidental actor, having wholly identified himself with the enacted personality during his moment on the stage of the world, is unable to take it off when the time comes for departure, and so keeps it on indefinitely, for millenniums —even eternities—after the play is over' [2] But, as Zimmer says, Indian philosophy, on the other hand, insists on the difference emphasizing the distinction between the actor and his role [3] Indian philosophy emphasizes the contrast between the empirical existence of the individual and the transcendental nature of the *self* which is unaffected by the vicissitudes of empirical existence

The Jainas believe in the inherent capacity of the soul for self-realization Self-realization is not the realization of the empirical *self*, but the realization of the transcendental *self* The goal is to reach perfection, 'siddhahood In the *Tattvārthasūtra* we get an account of the nature of the soul as possessing the characteristic of *ūrdhva gati*, tendency to move upwards It is the tendency of the soul to escape from the cycle of worldly existence and to reach perfection This tendency, this force leading upwards, is called the centrifugal force [4] The capacity of the soul for perfection is, however, obstructed by the obscuration of the soul by the veil of *karma* The tendency for upward motion is thwarted by the perversity of attitude, *mithvatva* that develops through the accumulation

1 Tagore (R) *Sādhanā* p 33

2 Zimmer (H) *Philosophies of India*, p 237

3 *Ibid*

4 Tatia (N) *Studies in Jaina Philosophy* p 269

of *karma*. The soul gets caught in the wheel of *saṃsāra* and forgets its real nature. The first three types of passions obscure the effort for the search for truth *(samyaktva)*, capacity for partial renunciation, *(deśavirata caritra)*, and the capacity for the full realization of the *self*. The effort for the search for truth is thwarted and the effort takes the direction of untruth. Still, the desire and the capacity to ascertain the truth about the things of the world, remains unobscured. This is explained on the analogy of the clouds. The pure and perfect knowledge is still possible, although it is covered by *mithvātva*. The attainment of *samyaktva* is a necessary condition of the way to the realization of the *self*. By the destruction and subsidence of the veil of *karma* which obscures the knowledge and activity of the soul, the soul attains *samyaktva* and knows its real nature. It is reminded of the great mission it has to realize. It is aroused to active spiritual exertion. It is awakened from nescient slumber, and its inherent capacity for self-realization gets expression. It now knows that it has to escape from the wheel of *saṃsāra* to get to the realization of itself. This is the awakening of the soul. Sometimes the awakening comes through the instruction of those who have realized the truth. But sometimes it is aroused by its own efforts without any outside help. Jainism does not believe in the revelation of truth like the *Vedānta* and the *Mīmāmsā* schools, nor does it accept the *Yoga* and *Nyāya Vaiśeṣika* view that the supreme deity reveals the truth. The Jainas believe that the soul has an inherent capacity for self-realization.

But self-realization is a long process. It is an arduous and difficult path. It is a fact of common experience that different individuals have different degrees of power to realize the stage of perfection. In the course of its eternal wandering in various forms of existence, the soul sometimes gets an indistinct vision and feels an impulse to realize it. This is due to the centrifugal force. Such an awakening does not always lead to enlightenment and spiritual progress. The soul has to go through various stages of spiritual ups and downs before the final goal is reached. These stages of spiritual development are by the Jainas called *gunasthānas*. They believe that there are fourteen such stages of spiritual development. These stages are linked up with the stages of the subsidence and destruction of the *karmic* veil. In its journey to perfection, the soul passes through an infinite number of states, going from the lowest to the highest stages of spiritual development.

We shall now consider the journey of the soul through the fourteen stages of spiritual development as the Jainas describe them. *Gunasthāna* refers to the state of the soul at a particular stage in its spiritual development with reference to the nature of *jñāna*, *darśana*, and *caritra*, through the operation, subsidence and destruction of *karma*.[5]

5 *Abhidhānarājendra* Vol III, *Gunasthana*

The soul passes through an infinite number of states in its journey The stages which the soul has to go through have been classified into fourteen stages They are called *gunasthānas* In the *Gommatasāra*, we get a list of fourteen *gunasthānas* with a detailed description of each stage The fourteen *gunasthānas* are as follows (1) *Mithyādrsti*, perversity of attitude, (2) *Sāsvādana samvagdrsti*, transitory stage of the right attitude, (3) *Samyag-mithyādrsti*, the right and the wrong attitude mixed, (4) *Avirata samyagdrsti*, right attitude, but having no moral self-control, (5) *Deśavirata samyagdrsti*, right attitude, with limited moral self-control, (6) *Virata*, partial self-control, (7) *Pramatta virata*, imperfect self-control, (8) *Apūrva karana*, new thought effort (9) *Anivrtti karana*, advanced mental effort This is also called *anivrttibādara-samparāya* (10) *Sūksma samparāya*, the slightest mental disturbances, (11) *upaśānta kasāya*, suppression of mental disturbances, (12) *Ksīna kasāya*, destruction of mental disturbances like delusions, (13) *Sayoga kevali*, the stage of omniscience while still in the bodily existence, and (14) *Ayoga kevalī*, the stage of omniscience and perfection after throwing off all bodily bonds After the last *gunasthāna* the soul becomes liberated The first four stages of spiritual development have no moral flavour and do not involve any moral effort All other stages are combined with moral effort In all these different stages, the mental efforts for the realization of the different stages of spiritual development are innumerable But the classification of the mental efforts into fourteen spiritual stages has been possible as they present prominent factors in the progress of self-realization [6]

We have referred to the innate tendency of the soul to escape from the wheel of *samsāra* The soul possesses the characteristic of *ūrdhva gati* This tendency is the centrifugal force which leads the soul along the path of liberation This tendency to struggle for emancipation remains dormant in souls still clouded by the veil of *karma* The counteracting forces, like the passions obstruct the progress of the soul in the path of realization These are the centripetal forces which keep the soul tied to the wheel of *samsāra* and make it difficult for it to escape from the bonds of empirical existence The centripetal forces mainly consist of perversity of attitude, in fact, of the obdurate perversity, and the passions that cloud the purity of mental life In its wanderings in the wheel of *samsāra*, the soul, as we have seen, sometimes gets the vision of the goal of liberation and of the way towards this goal. It also feels an urge to make efforts to reach the goal This urge is the expression of the centrifugal force It manifests the energy called *yathāpravrttakarana* [7] *Viśesāvaśyakabhāsya* describes the process of operation of this energy towards self-realization The *yathāpravrttakarana*, the energy for effort, lasts only for some time,

6 *Gommatasāra Jīvakanda* Verse 10

7 *Viśesāvaśyakabhāsya* 1204—1217

for less than a *muhūrta*, about forty-eight minutes The soul feels during this mental state a kind of uneasiness with the worldly existence It becomes aware that this empirical life, the life in this world, is meaningless It also sees the possibility of emancipation from this empirical existence If the impulse which creates such dissatisfaction with the worldly existence and a restless desire to struggle for emancipation, is strong, then the soul cuts the cluster of *karmic* matter called the *granthi* The soul is then successful in some measure in its struggle to free itself from the bondage of worldly existence It is set on its way to liberation The struggle consists in the twofold process known as *apūrvakarana* and *anivrttikarana* *Labdhisāra* describes the different stages of the progress of the soul on the way to self-realization by means of these two processes The process of attainment of self-realization takes four forms (1) a certain measure of subsidence and destruction of *karmic* matter, (2) purification of the soul as a result of such process, (3) the possibility of getting instruction from the sages, and (4) reduction of the duration of all types of *karmas* except in the *āyu karma*[8] However, such a process of purification and the efforts for self-realization are not possible for all souls Some souls are not capable of such spiritual efforts to the extent of reaching the highest perfection They are called *abhavya jīvas* It is only for the souls which are embodied, possessing five sense organs and mind and fully developed, that efforts towards self-realization are possible They are called *bhavya jīvas* In such cases the soul gets an indistinct awareness of the sufferings of the world and a vision of the way to liberation through the impulse of *yathāpravrttakarana* But such an awareness is not alone sufficient for the upward journey of the soul A more powerful expression of the energy would be required for the purpose of a fuller and more successful struggle for self-realization The soul that lacks energy fails to fulfil its mission and withdraws from the struggle The energy of *yathāpravrttakarana* which leads the soul in the direction of self-realization manifests itself in two processes, *apūrva karana* and *anivrtti karana* The *karana* is the spiritual impulse that leads the soul to fulfil its mission and to realize the goal *Karmaprakrti* gives a detailed description of the two processes that operate in the efforts to realize the *self* Thus, the inherent impulse of *yathāpravrttakarana* leads to the vision of the goal and makes efforts possible In its efforts to self-realization, the soul finds that it has to face innumerable difficulties in the form of *karma granthi* These hinder the efforts for enlightenment The processes of *apūrvakarana* enable the soul to clear the obstacles in the form of *karma granthi*, while *anivrttikarana* leads it to the verge of the dawn of enlightenment The enlightenment comes like a flash through the subsidence and destruction of the *mithyātvamohanīya karma* This is

8 *Labdhisāra*, 3-7

possible because of the fundamental characteristic of the soul in its tendency to upward motion The struggle for liberation goes on with the help of the two processes mentioned above This is the journey of the soul along its homeward path The progress of the soul in its homeward journey takes fourteen stages till the final goal in perfection is realized These fourteen stages are the *gunasthānas*

The soul gets the first spiritual vision from the subsidence of the *karmic* matter and removal of the perversity of attitude, the *mithyātva* But this spiritual vision does not in the beginning last long But the soul remains restless and struggles in a number of ways to recapture the vision and keep it permanently This struggle is long and arduous It has to remove gradually the five conditions of bondage—*mithyātva*, perversity of attitude, *avirata*, lack of self-control, *pramāda*, spiritual inertia, *kaṣāya*, passion and *trigupti*, threefold activity of body, speech and mind The subduing of passions is an important condition of spiritual progress It is possible only by the operation of the processes of *yathāpravṛttakaraṇa* manifesting in the forms of *apūrvakaraṇa* and *anivṛttikaraṇa* The progress of the soul in all the fourteen stages is possible in two ways (1) the soul may suppress the passions, when, as a consequence subsidence of the *karma* would take place This is the path of suppression or subsidence It is called *upaśama śreṇi* (2) The soul may also go the way of annihilating the *karmas* altogether This spiritual path is called *kṣaya śreṇi* Thus, the soul goes the way of self-realization by the paths of subsidence (*upaśama*), and destruction, (*kṣaya*) of the *karmic* veil In the highest stage of self-realization, the soul reaches the stage of perfection and omniscience This is the fourteenth stage and the consummation of the struggle

Discussion of the Fourteen Stages

We shall now refer briefly to the fourteen stages of spiritual development These stages represent the journey of the soul to self-realization

(1) The first is the lowest stage It is the stage of perversity of attitude and is called *mithyātvadṛṣṭi* In this stage, we accept wrong beliefs and are under the false impression that what we believe is right We look at every thing through coloured glasses We refuse to recognise that we are wrong It is a stage of wrong belief which is caused by the operation of *mithyātva karma* However, the soul is not entirely bereft of an indistinct vision of the right This is possible because the soul cannot be entirely bereft of the possession of the right knowledge The soul has at least the minimum degree of right vision in this stage, although the latter is entirely clear Though the soul has, the capacity of removing the perversity by means of the right vision, it is still, under the

veil of perversity The perversity of wrong belief consists in not having belief in things as they are Wrong belief is of five kinds (i) one-sided belief (*ekānta*), (ii) perversity of belief (*viparīta*) For instance, the practice of sacrifice of animals is due to perversity of belief In this, we forget that all lives have to be respected We ignore the fundamental equality and dignity of the individual souls in whatever state they are, (iii) veneration of false creeds, called *vinaya* It refers to the acceptance of a false creed, (iv) doubt, which is responsible for instability of faith, (*saṁśaya*), as when we are not prepared to accept either of two beliefs, (v) indiscreet acceptance of any view although it is perverse and wrong, *ajñāna*[9] The soul, suffering from perversity of attitude, does not relish the truth, just as a man suffering from fever has no taste for sugarcane juice[10] This state of the soul refers to the perversity which may give rise to intellectual aberrations like false ideologies in social, political and religious life Even souls that have cut the *karma granthi* and have experienced spiritual vision may fall back to this stage of perversity For instance, a man who has known the right view may fall back and be perversely fanatical in the wrong faith However, such men are not totally condemned, because, for them, there is a possibility of regaining the lost vision They have tasted the right vision, and when the occasion arises they will realize that they have fallen back and try to free themselves from their perversity of attitude This is not so easy for those who are still in the lowest stage of spiritual development, since they have never had a glimpse of the right vision

(2) The next stage is the *sāsvādana samyagdrsti* This is a transitory stage, as it is an intermediate stage in the fall from the heights of *samyaktva* The soul halts while falling from a higher stage of spiritual development For instance, at the end of the period of the dawn of enlightenment life-long passions envelop the soul, and there is a fall to a lower stage From the higher stage of *samyaktva* the soul comes down to wrong belief, but it has neither the right belief nor a fanatical perversity of attitude This is called the doubtful stage, or *sāsvādana*[11] The mental states in this stage are said to be in a transitory condition The soul had acquired the right belief but it has now come down, although the fall is not to the lowest stage The minimum duration of the fall in this stage is one instant of time (*samaya*), and the maximum is *avali*, six wings During this fall, the soul has neither the right belief nor the wrong belief, because the *karma* which is responsible for the perversity of attitude (*mithyātva*) has not yet begun to operate It is possible that after one *avali* the *mithyātva karma* may begin to operate again, when it falls

9 *Gommatasāra Jīvakānda* 15
10 *Ibid*, 17
11 *Gommaṭasara Jīvakāṇḍa* 20

to the lowest stage of *mithyātva dṛṣṭi* Putting this description i language common, we may say that those who strive and get the ri attitude towards life and the right view about the things of the wc in social and political life, may begin to hesitate and fall back on fa views through the loud propaganda of the false beliefs Such transformation may take place through intense propaganda and coun suggestion This stage of hesitation before accepting the false belief w a fanatical perversity may be called the *sāsvādana* stage Propagan clouds the right view and leads to hesitation It may bring a person do to false belief However, men who have already known what is right a have accepted right faith for some time may not remain in this stage fo long time There is, further, a possibility of redemption

(3) Now we come to the third stage, called *samyagmithyādi* It is a mixed attitude of right and wrong belief There is neither a de to have true beliefs nor a desire to remain in ignorance and false beli like mixing curds and treacle[12] This is also a transitional stage Af getting insight into the right attitude for the first time, it is possible tha man may at the same time begin to feel that what is right may not be rig and he may cling to false ideologies also This type of mixed attitude l been explained by the Jainas as due to the rise of the semi-pure cluster the *karmic* veil deluding the vision This stage lasts only for *antarmuhūrta*, about forty-eight minutes After that, it may either go to the higher stage or may fall back to the lower stage of *sāsvādi* or *mithyātva* In this stage, there is no self-control, *deśasamyama* C experiences both the right attitude and the perversity at the sa time owing to a confusion of attitudes The persistence of wrong be makes moral effort difficult The practice of vows is not possible in t stage because of the perversity which is partially operating Self-cont and the practice of vows are possible only from the fifth stage of spirit development, because the moral effort requires right knowledge and ri belief The Socratic dictum, 'virtue is knowledge', implies a simi assumption that right knowledge will alone give us the possibility of virt In this mixed stage, there is no bondage of the particles of *āyu karma*, *karma* which determines the duration of life There is no death in t stage, because, as Nemicandra says, death must be from the very stage which the *āyu karma* is bound[13] Death is not possible also because t stage expresses the vital struggle between the perverse attitude a the right attitude But in death there is no energy for such struggle, a the man drops either right belief or wrong belief without offeri much resistance This is the stage of active struggle which gives r to the mixed attitude

12 *Gommaṭasāra Jīvakāṇḍa* 22
13 *Ibid* 25

(4) Next comes the stage of the right attitude This is the fourth stage Here, the right attitude is not yet accompanied by moral efforts for the attainment of the good This is, therefore, called *avirata samyagdṛṣṭi* One gets a glimpse of the truth, but one lacks the spiritual strengh to strive for the attainment of the truth In this stage, the soul lacks self-control in spite of the fact that it gets the right attitude and knowledge of the truth But this belief in the truth is not steady It is impure and inconstant It still causes destruction of *karma* The right view at this stage may be due to the subsidence of the vision-deluding *karma*, or it may be due to the subsidence and destruction of the relevant *karma* [14] It is also possible that such a stage of right attitude is due to the annihilation of the four primary passions Thus, the right attitude in this stage may be of three kinds, (i) right belief due to the suppression of the relevant *karma*, *aupaśamika samyaktva* It lasts for an *antarmuhūrta* and then may fall down to the lower stage and lose the right attitude or it may go up to the higher stage (ii) This higher stage of right attitude is a second form of *samyaktva* It is due to the destruction and subsidence of the *karmic* veil formed by the relevant *karma* It lasts for one *antarmuhūrta*, but, in the language of Jaina theology, it may last for sixty-six *sāgaras* in the case of beings residing in heaven This stage is called *kṣayopaśama samyaktva* Next in stage is the right attitude which is formed through the destruction of the *karmas* which are responsible for the perversion of right belief and the excitement of the four passions [15] This right attitude is clear There is nothing to cloud it It is right vision But in the case of *kṣayopaśama samyaktva* it is vitiated by perversity and is therefore impure and unsteady

This stage gives us the right attitude, but there is no possibility of moral effort to attain it because it lacks spiritual strength Moral self-control is not possible It is called the vowless stage, *avirata* In this stage, there is absence of control of the senses and lack of solicitude regarding injury to living beings However, the person knows the truth and knows that the breaking of vows is wrong He is filled with compassion and calm He believes in the right principle and is afraid o the wheel of *saṁsāra*, but the moral control and the positive efforts required are not possible He may not hurt any living being without provocation, but he has not taken any vows in the matter

But right intuition, right knowledge and self-control are necessary for spiritual development, and the soul which lacks self-control may not rise higher in the state of spiritual development A soul can rise to the next higher stage only when it can overcome this obstacle of lack of spiritual energy and moral effort

14 *Gommaṭasāra Jīvakāṇḍa*, 25
15 *Ibid* 26

This stage of self-development belongs to persons who are helpless in the practice of virtue They have knowledge of the right and good, but they have no power to practise them as they have no control over their senses Aristotle raised a similar objection against the Socratic doctrine of 'virtue is knowledge', since men act wrongly even knowing what is right The will in these cases is not strong Effective virtue would be possible with a strong will and the requisite energy of the soul to translate the will into virtuous action The soul has to develop self-control gradually for the sake of fuller self-realization From the next stage onwards there is a gradual expression of self-control

In the four spiritual stages that are described here, we have to establish the right attitude which requires moral effort for further progress We may compare these four stages to the state of persons described in Plato's *Parable of the Cave* ' And now , said Socrates, let me show a figure how far our nature is enlightened or unenlightened [16] Socrates presents a picture of some human beings living in an underground den from their childhood, with legs and necks chained so that they cannot move They can only see what is in front of them The den has a mouth towards the light Fire is blazing at a distance above them and behind them Between the fire and the prisoners, there is a raised way and low wall built along the way like the screen which marionette players have in front of them over which they show their puppets They would see their own shadows and the shadows of men and animals passing along And the prisoners would mistake the shadows for realities [17] This is the stage of *mithyātva*, the perversity of attitude towards truth In this stage we are unable to see the truth because we are bound and chained to perversities through the operation of the deluding *karmas*

But if one of them is liberated and is compelled to stand up and walk towards the light, the glare will certainly distress him He will suffer pain He would be unable to see the reality and would persist in maintaining the superior truth of the shadows If he is then taken to the light, he will be in a confused state till he gets accustomed to the sight of the upper world This may be compared to the stage of *sāsvādana samyagdṛsti*, where there is hesitation and very faint and indistinct glimpses of the truth But once he gets accustomed to the change, he will be able to see the things of the world He will gaze upon the light of the moon and the stars and the spangled heavens The vision may still be indistinct for him, He may not know the meaning of it all But once he gets the clearer vision of the truth, he will realize the folly of his fellow-prisoners and he will pity them This is the fourth stage of *avirata samyagdṛsti* Stripped of all moral flavour, the parable roughly

16 Plato *The Republic* Book VII
17 *Ibid*

represents the four stages of self-realization resulting in the attainment of right vision It is possible that one who gets the vision may fall down to the lower stage of perversity But he would still be different from those who have never come out of the den of darkness and perversity His nature would be filled with the mellowness of the vision But others in the den would ridicule him and say of him that he went out and came down without his eyes[18] It was better not to think of ascending In this parable of the cave, Plato gives a description of people steeped in ignorance and perversity If any one is given a lift to enable him to rise from this perversity he may rise for some time but he may fall back again This parable roughly corresponds to the four stages of *gunasthāna* mentioned in the Jaina philosophy

(5) Next higher among the stages of spiritual development is the stage of right attitude coupled with partial self-control, and is called *deśavirata samyagdṛṣṭi* At this stage, one knows what is right and one tries to practise the right, but one is still vitiated by temptations for untruth and vice In this stage, we are still controlled by passions, which are an impediment in the struggle for self-realization There is partial destruction of the *karmic* matter producing passions[19] The full pratice of virtues would not be possible, because there is often the possibility of falling off in the snares of passions Self-control is only partial This stage is also called *virata avirata*, because there is the possibility of both self-control and self-indulgence in the control of vices and the practice of virtues For instance, at this stage one takes a vow not to injure any animal, but is still sinless if one unwittingly kills an animal However, he may fall off in the practice of such virtues There is only a partial expression of the energy of self-control However, in this stage one knows the truth and is devoted to the truth, although one may not be able to practise it fully and consistently

(6) Next is the stage which expresses moral activity In this stage, moral effort takes a more definite shape, although the efforts are not always successful The right attitude and the knowledge of the truth gained in the earlier stages have created a general background for the practice of the moral life and the attainment of the good Moral effort begins to shape itself In the fifth stage, a person has a glimpse of the truth which is more or less clear and steady, and he tries to develop self-control and to practise virtues for the sake of attaining the truth But complete self-control has not been possible in this stage, although he acquires some form of moderate self-control It was only a partial expression of the moral effort But this lack of full self-control and practice of virtues is overcome in the sixth stage But even in this stage

18 Plato *The Republic* Book VII

19 *Gommaṭasāra Jīvakāṇḍa* 30 and Commentary

the effort for moral life and the spiritual struggle are not fully successful, because their full expression is vitiated by the moral and the spiritual inertia which comes in the way of a successful practice of the moral life This inertia is called *pramāda* *Pramāda* is responsible for the failure to realize full control and the full practice of moral life Therefore, this stage is called *pramatta samyata* The *pramāda* poisons and vitiates moral activities through the operation of the passions which come in the way of perfect conduct Minor passions operate in this stage *Pramāda* causes impurity and partially prevents the perfect observance of vows[20] Thus, from the fifth stage moral effort has begun to express itself though in an imperfect way In the sixth stage also, the effort for the moral life continues, although it may not still be successful

(7) *Pramāda*, which we have called moral and spiritual inertia, is overcome in the seventh stage The impediments to the practice of virtues are now gradually being removed This stage is called *apramatta samvata* Now more pronounced self-control is possible Efforts for the moral life take a more definite shape One is able to practise the five vows with greater success and without many obstructions Efforts towards morality are being established It is possible to get, in this stage greater self-control and self-confidence The operation of the *karma* which prevents the perfect conduct is very feeble and the *karmas* are being subdued Similarly, the minor passions called *no-kaṣāya* are also at the lowest level of expression The minor troubles disappear like ripples on water As a result, *pramāda* is overcome and one is able to attain the stage where one can practise virtues and vows with greater confidence and greater success Here, vision of truth is blended with effort for the moral life, to attain truth[21] The *apramatta samvata* of this stage is of two kinds, (i) *svasthāna apramatta*, which is the normal and ordinary stage of practice of virtues, and (ii) *sātiśaya apramatta*, an extra-ordinary way of practising perfect vows In the first stage of the practice of vows, *pramāda* is suppressed One practises five great vows and possesses twenty-eight virtues One has right knowledge and a calm disposition One is absorbed in concentration From this stage onwards, we may take two ascending scales of spiritual development For instance, it is possible to go higher in the scale of suppression and the destruction of *karmas* This stage is called the ordinary stage of practice of the moral life, because it is not possible to rise higher than this stage It lasts only for one *antarmuhūrta*, falls down to the sixth stage, and reascends to the seventh again and again In the higher stage of the effort for the moral life and practice of perfect virtues, it is possible to go higher in the scale of subsidence and destruction of their relevent *karmas* The process of

20 *Gommatasāra Jīvakānda* 33
21 *Ibid* 45

adhahpravrttakarana, by which the soul on a lower level can rise higher and acquire purity, begins to operate in this stage[22] In this stage of self-development, the journey has taken a definite direction, although it may not proceed with the directness and speed required for the proper and speedy development of the *self* However, the efforts for the moral life have taken the right direction and, if pursued, will continue towards the final realization of the self

(8) Greater self-control and a more definite progress on the path of self-realization is possible in the eighth stage of development This is called the stage of *apūrva karana* The *self* attains special purification, and it is capable of reducing the intensity and duration of the *karma* It is able to reduce the intensity of the *karmas* and transform the *karmic* series Such a process increases the purity of the soul The *apūrva karana* operates in this stage The souls bring about the subsidence of the *karma*, which is responsible for the obscuration of the right conduct, after having acquired freedom from the bondage of the *karmic* matter of sleep and drowsiness But the *karma* determining the age, the *āyu karma*, still operates And those who proceed on the way of the destruction of the *karma* which obscures right conduct, go the way of destruction of *karma* called *ksapakaśreni* Here also the *karma* determining the age still exists *Gommatasāra* gives a detailed analysis of the process of *apūrva karana* operating in this stage The duration of the stay of the soul in the two scales of subsidence and destruction is different The soul going the way of subsidence remains, at the most, for an *antarmuhūrta* But, while going the way of destruction of *karmas*, it remains for an *antarmuhūrta* as a rule In this stage one is only affected by mild passions One experiences extreme delight in overcoming the strain arising out of the suppression and elimination of the passions that one may have in this stage in a mild form Emotional disturbances do not much affect one It is possible to develop a stoic attitude of calm and indifference in this stage of self-development, because one has already overcome, with fair confidence, even the milder forms of passion that disturb quiet concentration and contemplation

(9) Next is the ninth stage of self-development It is called *anivrtti-bādara-samparāya* The process of *anivrtti karana* operates in this stage It is possible to have progress in the direction of either suppression or destruction of the *karmic* matter But one may be affected by gross passions to some extent Therefore it is called *bādara-samparāya* However, the affliction of the soul by the passions and by the emotional disturbances is still possible, though it is only an occasional possibility and not a frequent occurrence Very rarely is one afflicted by gross passions and emotions But it is possible to overcome such emotional disturbances,

22 *Gommatasāra Jīvakānda*, 48, 49

if they occur with greater confidence and ease In this stage, we have fairly established overselves as spiritual and moral individuals, although sometimes we may be slightly afflicted by passions and grosser impulses

(10) In the tenth stage one is free from all passions except the subtle greed of the fourth type Greed afflicts us However, distrurbance from the passion of greed is only occasional Except this, there is no other disturbance One is passionless and undisturbed As a well-washed red vest retains the slightest tinge of redness, so the *self* is affected by the slightest passion of greed This stage is called *sūksma-samparāya*[23] Experiencing the slightest touch of greed, the soul can go in the direction of subsidence or of destruction of the *karma* Except for such disturbances the soul is passionless and calm This state approximates to the state of perfect conduct (*yathā khyāta*) But, one is still affected in the slightest degree by the passion of greed "This subtle greed can be interpreted as the subconscious attachment to the body even in souls which have achieved great spiritual advancement"[24] The soul which has advanced in the direction of subsidence of the *karma* that obscures right knowledge and right belief and right conduct, can rise to the eleventh stage of spiritual development In the tenth stage one has advanced fairly well and one has in this stage a well-established and perfect practice of the moral life although sometimes it may be affected by slight disturbances of a passion like greed

(11) The eleventh stage is called *upaśānta moha*, where even the slightest possible disturbance due to the passion of greed is overcome and all such disturbances are suppressed One is free from all types of passions This is the highest stage, in which the passions and other emotional disturbances that afflict the soul are suppressed But these passions are not altogether eliminated, they remain suppressed through pressure of the effort for the moral life and one is not altogether free from the enveloping influence of the *karmas* except the deluding *karmas* The stage is, therefore, called *chadmastha*, as it is just covered by the other *karmas*, which, however, are not operative in this stage Like the limpid water in the cold season, when the muddy turbulence of the rains goes to the bottom and leaves the upper surface of a pond clear and transparent, so one who has suppressed all passions and all the deluding *karmas* is able to remain calm and undisturbed and to control his passions with greater confidence As all attachments are suppressed, it is also called *vītarāga*

(12) It was seen that we can go either the way of annihilation of *karmas* or the way of suppression of the *karmas* One who goes the way of suppression of the *karmas* gradually destroys the different types

23 *Gommaṭasāra Jīvakāṇḍa* 59

24 Tatia (N) *Studies in Jaina Philosophy* p 278

of deluding *karmas*, and the soul goes from the tenth stage of *upaśānta kaṣāya* to the twelfth stage, in which the passions are altogether destroyed The twelfth stage is called *kṣīna moha*, or *kṣīna kaṣāya* This is the highest stage of annihilation of the *karmas*, while in the eleventh stage we reach the highest stage of suppression of the *karmas* This is *upaśānta moha* The soul remains in this stage for one *antarmuhūrta* During this time, it is very much purified and destroys the *karmas* obscuring *jñāna* and *darśana* and also the deluding *karmas* The soul is now free from all the four types of *ghāti karmas* All the passions disappear altogether

(13) When all the passions and the four types of *ghāti karmas* are destroyed, one reaches the thirteenth stage of spiritual development In this stage, one is nearer the absolute perfection only with some impediments in the way This stage is called *sayoga kevali* The conditions of bondage like *mithyātva*, *pramāda*, and passions are no longer operative One is free from such bondage However, the other condition viz., the bondage of activity, still remains It is not free from empirical activity and intrest It is not free from *yoga*, therefore, it is called *sayoga* but it has attained omniscience in the form of perfect knowledge and perfect intuition The soul has become *kevali* Therefore, this stage is called *sayoga kevali* But one is still not free from embodied existence, because the four types of non-obscuring *karmas*, like the *vedanīya* which produces feeling, *āyu* which determines the span of life, *nāma* which determines the physical structure and nature of the body, and *gotra* which determines one's individual status in life, are still operative One is not free from bodily existence, because the *āyu karma* is still to be exhausted Persons still go through the threefold activities of body, speech and mind But there is no influx of the *karma* In this stage, we find omniscient beings like the *tīrthankaras* the *ganadharas* and the *sāmānya kevalins* They attain the enlightenment, but still live in this world, preaching the truth that they have seen

This stage can be compared to the stage of *jīvanmukti* described by the other orthodox systems of Indian thought Vedānta recognizes the state of *jivanmukti* *Vedāntasāra* describes this as the stage of the enlightened and liberated man yet alive He is in the perfect state of deliverance He may appear to be active in this world in many ways, yet at root he is inactive He is like the man assisting a magician in a magical show, knowing that all that is shown is merely an illusion of the senses He is unaffected by all that happens [25] Yet, the *prārabdha karma* of the individual destiny, which is responsible for what is, cannot be destroyed even at this stage It has to exhaust itself, as these *karmas* produce their effects of continued life But not being replenished, they will

25 *Vedāntasāra*, 219

die away When Gautama, the Buddha, attained enlightenment, he wanted his enlightenment not to be known to others But Brahmā descended to the earth and inspired the Buddha to be the teacher of mankind, the teacher of the beings of this world and heaven This stage is the stage of *jīvanmūkti* And this is the stage of *sayoga kevali* of the *tīrthankaras*, *ganadharas* and *sāmānya kevalins* when they preached their sublime knowledge to the people of this world Zimmer compares this attitude of the *kevalins* to the function of the lamp Just as the lamp that lights the room remains unconcerned with what is going on in it, so the *self* enacts the rôle of 'lighting the phenomenal expersonality solely for the maintenance of the body, not for the pursuit of any good, any gratification of the sense or any kindly goal [26]

(14) The final stage of self-realization is the stage of absolute perfection It is the stage of absolute liberation without any empirical activity attached to it This stage is called *ayoga kevali* Here, all the remaining *karmas* are also destroyed Before entering into the final stage of absolute purity and liberation, the soul appears to prepare its way for the stoppage of all activity both gross and subtle This stoppage of activity requires another activity as an instrument The soul stops the gross activity of the sense organs and the activity of speech, mind and body Then it stops the subtle activity of the mind, speech and body, like the physiological processes of respiration and digestion Then the soul enters into the third stage of *śukla-dhyāna*, which is infallible and leads to the final liberation directly and immediately At this level of *śukla-dhyāna* even the subtle physiological activities and the subtle activities of the mind and body are stopped The *self* becomes as motionless as a rock being devoid of all bodily speech and mental activity This is the highest stage of *śukla-dhyāna* [27] With the remaining *karmas* eliminated the highest perfection is reached Hence this is called *ayoga kevali* The *self* has attained peaceful perfection The influx of *karma* is completely stopped and the *self* is freed from all *karmic* dust [28] This state lasts only for a period of time required to pronounce five short syllables At the end of this period the soul attains disembodied liberation This state of *ayoga kevali* is also described as the state of *Parabrahma* or *Nirañjana*

Of the fourteen stages of self-development thus described, it is said that the gods and those who dwell in hell can attain the first four of the *gunasthānas* They can get the vision of Truth They can know what is right But they cannot make the moral effort required for attaining the truth The lower animals in this world can rise to the fifth stage of *deśavirata* Moral effort is possible to some extent We get an account

26 Zimmer (H) *Philosophies of India* Ed by Campbell p 446
27 *Dhyānaśataka* 82
28 *Gommaṭasāra* *Jīvakāṇḍa*

of the spiritual struggle of the *tīrthankaras* through the various forms of existence, in the forms of lower animals and gods, till they reached perfection But the final liberation is only possible in the human existence It is possible only for human beings to go through the fourteen stages of spiritual development and reach the highest state of perfection called *kaivalya* state [29]

Radhakrishanan says that it is not possible to give a positive description of the liberated soul The state of perfection is passively described as freedom from action and desires, as a stage of utter and absolute quiescence [30] It is a state of unaffected peace, since the energy of past *karma* is extinguished In this state, the soul is itself' and no other It is the perfect liberation Zimmer says that, after its pilgrimage of innumerable existences in the various inferior stratifications, the life-monad rises to the cranial zone of the microcosmic being, purged of the weight of the subtle *karmic* particles that formerly held it down Nothing can happen to it any more, for it has put aside the traits of ignorance, those heavy veils of individuality that are the precipitating causes of biographical events In the highest stage of perfection, the individuality the masks, the formal personal features are distilled away "Sterilized of colouring, flavour and weight, the sublime crystals now are absolutely pure—like the drops of rain that descend from a clear sky, tasteless and emasculate' [31]

This is an account of the journey that a person has to make to attain perfection These stages of the struggle for self-development are psychologically significant It is not possible, here, to give parallels in psychological terms Empirical psychology is concerned with the analysis of the nature and development of the empirical personality *Bahirātman* can be compared to the me' of William James Similarly, it is also possible to give a description of the *antarātman* in terms of the 'I of William James to some extent Rational psychologists have shown the possibility of such a study But psychology is not aware of the nature of the transcendental *self*, the *paramātman*, and the nature of the development of the empirical *self* through various stages to reach the highest stage of the transcendental *self* Such a language is foreign to psychology as a science But, considered from the point of view of *gunasthānas*, the soul is in the empirical stage, the me, before it cuts the *karma granthi* and experiences the first dawn of the vision of the truth in the fourth stage After it gets the vision it makes moral efforts to attain the truth in the highest perfection From the fifth stage onwards to the stage of *chandumastha* moral efforts are prominent The *self* in these

29 *Abhidhānarājendra* Vol III *Gunasthāna* (5)

30 Radhakrishnan (S) *Indian Philosophy* Vol I p 333

31 Zimmer (H) *Philosophies of India*, Ed by Campbell p 260

stages may be called *antarātman*, or the spiritual *self*, or of the 'I' of William James On the attainment of omniscience, the soul struggles to free itself from the bond of wordly life This is the struggle to reach the highest perfection The *self* in the highest stage of perfection is in the fourteenth stage of *ayoga kevalī*, which is the consummation of self-realization This is the transcendental *self*, a metaphysical concept of the *self* One has to cross the stage of empirical *self* and also of inner *self* in order to reach the highest stage of transcendental *self* or *paramātman*

Prof S C Nandimath compares the *guṇasthānas* to the *ṣaṭ-sthalas* of Vīraśaivism The *sthala* and *sthāna* are synonymous The *guṇasthānas* of Jainism have the same significance as the *ṣaṭ-sthalas* Vīraśaivism has six stages, while Jainism presents fourteen stages through which the soul has to pass before it reaches perfection However the underlying principle in both seems to be the same[12] According to Vīraśaiva thought, the soul possesses ignorance because of veil of *avidyā* It identifies the *self* with the things of the world But sometimes, miraculously, there dawns an idea that the things of the world are not all This idea increases one's faith in the supreme power This is the starting point The first stages viz , *bhakti-sthala*, *maheśwara-sthala* and *pradeśa-sthala* are stages in self-development wherein the distinction between the *self* and the absolute *īśwara* is still present But later stages, like *prāṇaliṅga-sthala*, and *śaraṇa-sthala* or the stage of self-surrender and *aikya sthala* leading to the final unity, gradually eliminate the distinction between *jīva* and *īśvara*, finally to the fusion of *jīva* with the transcendental *self* Prof K G Kundanagar, in his introduction to the *Ādi-Purāṇa*, also says that the Jaina *guṇsthānas* may be compared to the *ṣaṭ-sthalas* of Vīrasaivism It would be difficult to accept the interpretation given by S C Nandimath and K G Kundanagar because there appears to be difference in the Jaina and Vīrasaiva attitudes towards the problem The *ṣaṭ-sthalas* show the way towards the union with the God in the *aikya sthala* For the Jainas there is no absorption with the Infinite even in the highest stage of self-realization The Jainas are pluralists They do not admit a reality beyond the individual selves In Vīrasaivism *bhakti* is an important factor for the realization of the *self* which culminates in the union with God It is through *bhakti* that the individual journeys through the stages of purification, self-surrender and the final stage of union For the Jainas, *bhakti* has no place in the struggle for the realization of the *self* The right attitude, (*samyaktva*), is to be coupled with the moral efforts in the way of self-realization It is only the individual self-confidence, the Jainas say, that leads one on to the progress towards perfection* In my discussions with some

12 Nandimath (S C) *A Hand Book of Vīrasaivism* Ch XI *The Pilgrims Progress*

scholars of Vīraśaivism, I have come to realize the differences between the attitude of the two schools of thought However, this problem needs greater consideration It is not possible to discuss this problem in detail in the frame-work of this study

It is not possible to get a thorough understanding of these stages of development by instruction through books It is necessary to be absorbed in the tradition of the religion for a better understanding of the problem For instance, it is easier for a Jaina to understand the significance of *gunasthānas* than for a non-Jaina Similarly, it is easier for a Vīraśaiva than for others to understand *ṣat-sthalas* [33]

This is an account of the fourteen stages or *gunasthānas*, of the spiritual development The stages of spiritual development are psychologically significant, although empirical psychology will not be able to explain the significance of these stages We should realize that man is not complete, he is yet to be In what he is, he is small He is occupied every moment with what he can get But he is hungering for something which is more than what he can get Tagore writes, "In the midst of our home and our work, the prayer rises 'Lead me across' For here rolls the sea, and even here lies the other shore waiting to be reached " [34]

33. *Ādi Purāna*, Ed by Kundanagar (K G) and Rao Bahadur Chougule (Kannada) Introduction

34 Tagore (R) *Sādhana The Realisation of the Infinite*

CHAPTER IX

CONCLUSION

The purpose of this treatise has been to present some problems of Jaina psychology But no attempt has been made herein to build up a science of Jaina psychology, for, a positive science of psychology, in the sense in which the term is used to-day, was not possible at that early stage of knowledge Psychological analyses were merely shades of the epistemological problem, and both, in turn, were parts of metaphysical investigation However, the psychological theories and problems have been woven together here to present a coherent picture as far as possible

The Idea of the Soul

The idea of the soul has been a fundamental principle in the rational psychology of the Jainas The existence of the soul is a presupposition in Jaina philosophy It is a *pratyakṣa* The soul is described from the noumenal and the phenomenal points of view From the noumenal point of view, it is pure consciousness *Upayoga* is the fundamental characteristic of the soul *Upayoga* is interpreted, in this treatise, as horme in the sense in which McDougall used the term It is the purposive force which is the source of all experience All the three aspects of experience–the cognitive, the conative and the affective --spring from it

Cetanā is a fundamental quality of the soul It is pure consciousness, a kind of flame without smoke This consciousness is eternal although it gets manifested in the course of the evolutionary process of life in the empirical sense The empirical experience arises out of the contact of the sense organs with the object

Thus, *upayoga* is a driving force which is purposive and which is responsible for experience It expresses itself into *jñāna* and *darśana* This expression is possible in the light of *cetanā* *Cetanā* is the background of the light of cognitions—of *jñāna* and *darśana*

The Jainas recognize three species of conscious experience–the cognitive, the conative and the affective They make a distinction in consciousness as knowing, feeling and experiencing the fruits of *karma* As a rule, we have first feeling, then conation and then knowledge[1] McDougall's view of the primacy of the affective element in experience and especially in instinctive behaviour may be mentioned in this connection

The Jaina thinkers were not unaware of the unconscious The *Nandīsūtra* gives a picture of the unconscious in the *mallaka dṛṣṭānta* The doctrine of *karma* as analysed by the Jainas comes nearer to Jung's

1 *Pañcāstikāyasāra*, 39

'Collective Unconscious' He says that it is possible to find the *karmic* factor in the archetypes of the unconscious [2]

Prajñāpanasūtra recognizes the peculiar mental force called *pāsanava*, which is rendered as *paśvatta* [3] It connotes prolonged vision It is interpreted, in this treatise, as mneme, a psychic force which holds our experience and which later becomes the basis for new experiences

The Jaina Theory of Mind

The Jainas have developed a systematic theory of mind Their approach to the problem has been a fusion of the synthetic and the analytic points of view The Jainas say that mind is a quasi-sense organ, a *no-indriya* Mind has two phases the material phase, *dravya manas*, and the psychic, *bhāva manas* The material phase is a mental structure and is composed of infinite, fine, coherent befitting particles of matter meant for the mental function, *manovarganās*

Bhāva manas is expressed in mental processes like thinking C D Broad in his *Mind and its Place in Nature*, presents a similar view in the distinction of the bodily and psychic factors of the mind McDougall also makes a distinction between the facts of mental activity and the facts of mental structure He infers the structure of the mind from its functions

Regarding the problem of the relation between body and mind, the Jainas presented a sort of psycho-physical parallelism concerning the individual minds and bodies Yet, they were aware of the interaction between the mental and the bodily The empirical approach showed them that there is mutual influence between them The Jaina theory was an attempt at the integration of the metaphysical dualism of *jīva* and *ajīva* and the fact of interaction of individual minds and bodies

The Sense Organs and Sense Qualities

The Jaina philosophers recognized two varieties of experience sensory and extra-sensory Sensory experience is indirect, it is conditioned by the sense organs and the mind, while extra-sensory experience is directly apprehended by the *self* without the help of the sense organs and the mind For the sensory experience, the sense organs are the windows through which the *self* cognizes the external world The mind does the function of organizing the impressions received through the sense organs in order to get a coherent experience

The Jainas have accepted five sense organs Motor organs are not recognized as instruments of experience The Jaina analysis of the

2 Jung (C G) *Two Essays in Analytical Psychology*, (1953), p 76 foot note

3 *Prajñāpanasūtra*, 29-30

physical structure (*dravendriya*), and the psychic function (*bhāvendriya*), has great psychological significance The physical part is the organ itself It has its subdivisions It can be compared to the modern physiological analysis of the sense organs The *bhāvendriya* is divided into two parts *labdhi* and *upayoga* *Labdhi* is the manifestation of specific sense experience, and *upayoga* is the psychic force, the horme, which determines the specific experience

The problem of the contact of the sense organs with the external object is psychologically important, although it has a great epistemological bearing The Jainas maintain that the visual organ, like the mind, is *aprāpyakāri*, because it does not come into direct physical contact with the object The other four sense organs have direct physical contact with the object Therefore they are *prāpyakāri* But modern scientific analysis of the sense organ of sight shows that we should suppose that there is some form of contact of the eye with the object through the medium of light

The Jaina analysis of the sense qualities coming from the various sense organs has also great psychological importance According to the Jainas, the visual sense quality is classed into five types of colour Touch is of eight types, and smell is of two There are five types of taste There are seven fundamental sounds Comparison with the modern analysis of sense qualities shows that the Jaina analysis has a psychological basis although not based on experimental investigation

Thus, the soul is the experiencing agent It gets two types of experience—the sensory experience and the extra-sensory experience The sensory experience is empirical experience gained through the sense organs and the mind It is indirect The extra-sensory experience is supernormal experience The soul gets it directly without the help of the sense organs and the mind

Sense Perception

The Jaina analysis of sense perception is as complex and it is significant The contact of the sense organs with the object, except in the case of the visual sense, is just a remote condition like time and space The sense perception of a particular object does, in fact, involve psychic factors The removal of psychic impediments in the destruction and subsidence of the knowledge-obscuring *karmas* is a necessary factor in the sense perception of an object It is a negative condition Selective attention is a positive psychic factor It may be compared to the mental set of the western psychologists

The Jaina description of the stages of sense perception is a significant contribution to the psychology of perception, although it gives a predominantly epistemological picture According to the Jainas, sense

perception can be analysed into four stages (i) *avagraha*, the stage of sensation, (ii) *īhā*, the stage of associative integration (iii) *avāya*, perceptual judgment, and (iv) *dharaṇā*, retention *Avagraha* is a sensational stage It is further divided into *vyañjanāvagraha*, which may be rendered as the stimulus condition of the sense awareness, or the threshold of awareness, and *arthāvagraha*, awareness, or the sensation itself *Īhā* involves the mental factor It integrates the sense expressions *Avāya* is clear cognition of the object involving perceptual judgment *Dharanā* is retention of what has been experienced However, sense perception is a concrete psychosis involving these processes which are combined and fused to give a coherent experience The Jaina description of sense perception gives a scientific and coherent picture of the psychological element in perception This can be compared, to some extent, to the structuralist view of sense perception

Other Sources of Sense Experience

There are other sources of getting sense experience They are (i) *dhāraṇā* retention, which is also a condition of recollection, (ii) *smṛti*, recollection, (iii) *pratyabhijñā*, recognition, which gives determinateness to sense experience, and (iv) *anumāna*, inference, which is an indirect source of sense experience *Dhāraṇā* can be described as a mental trace or mental disposition (*saṃskāra*) by which experiences cognized in a definite form by *avāya* are retained Such retention forms a condition of recall of the experience on a future occasion *Smṛti* is a form in which memory expresses itself It is ideal revival of a past experience so far as it is merely reproductive It arises from the stimulation of the mental disposition (*vāsanā*), which may be considered as equivalent to the *saṃskāra* of the Jainas Mental dispositions are the latent conditions of memory The emergence of mental dispositions to the level of consciousness is due to (i) the external conditions consisting of the environmental factors, and (ii) internal conditions connected with the conative urge The Jaina description of the conditions of memory may be compared to the laws of association in psychology Regarding the internal conditions, the Jaina description comes nearest to McDougall s view of memory McDougall says that explicit volition, purpose or intention to remember greatly favours remembering and recollecting In order to get clear recollection, it is necessary to remove psychic impediments like aversion to the object, fear and other painful experiences associated with it Such a removal of psychic impediments was, in a sense, mentioned by the Jainas in terms of the removal of the veil of *karma* But recollection does not give us a complete picture of memory unless recognition (*pratyabhijñā*), as a factor operates The Jainas give prominence to *pratyabhijñā* as an important factor in experience It is a synthetic judgment born of perception and

recollection The Jainas make *upamāna* a form of recognition Psychological analysis of recognition shows that recognition is a fusion of a percept and an image

Anumāna (inference), is another source of knowledge Inference has been recognized by all systems of Indian thought except the Cārvaka, as a source of knowledge The Jaina analysis of inference has great psychological value, although it is mainly epistemological The distinction between inference for oneself (*svārtha*) and inference for others (*parārtha*), is very important Inference for others needs a syllogistic structure for expression On this basis, Bhadrabāhu contends that the extent of the constituent propositions depends on the ability of the person to whom it is addressed

Inference is a mental process Validity of inference depends on psychological and logical grounds It is based on the perception of the relation of the minor term to the middle term, and the recollection of the universal relation between the major and the middle term McDougall showed that all deductive reasoning involves 'aperceptive synthesis[4] Similarly, the desire to know is an important condition of inference Miss Stebbing said that inference involves both the constitutive and the epistemic conditions The epistemic condition relates to what the thinker, who is inferring knows[5]

Supernormal Perception

The Jainas thought that knowledge due to the sense organs and the mind is not sufficient to comprehend the nature of reality They accepted the possibility of immediate and direct experience without the use of the sense organs and the mind This is *pratyakṣa* This is supernormal experience All schools of Indian Philosophy, except the Cārvākas, accept the possibility of such supernormal experience

The Jainas give three levels of supernormal perception (i) *avadhi*, (ii) *manahparyāya*, and (iii) *kevala* *Avadhi* may be compared to clairvoyance It differs with different individuals according to their capacities Human beings acquire this form of experience But it is natural with beings living in heaven and hell The Jainas have described different varieties of *avadhi*

Researches in extra-sensory perception show that clairvoyant cognition may differ with different individuals regarding intensity and durability of experience The Society for Psychical Research has found many instances of this type The psychic phenomenon called 'French Sensitiveness', which is sometimes called 'psychometry', may be regarded

4 McDougall (W) *An Outlines of Psychology* p 402
5 Stebbing (S) *Modern Introduction to Logic* p 215

as a form of *avadhi*, although in psychometry the sense organs and the mind do play their part

Manahparyāya is cognition of the mental states of others A certain physical and mental discipline is necessary for acquiring this experience It is only possible for human beings of character, especially for homeless ascetics The conditions for the possession of *manahparyāya* are that (i) the human being must have fully developed sense-organs and a fully developed personality, (ii) he must possess the right attitude, and (iii) he must be self-controlled and possess extra-ordinary power Siddhasena Divākara is inclined to extend the scope of *manahparyāya* to lower animals possessing two or more sense organs In this connection we may mention Dr Rhine's view that it is possible to find instances of the possibility of such perception in the case of lower animals, especially the vertebrates But the traditional Jaina view does not accept such a possibility Two varieties of *manahparyāya*—*rjumati* and *vipulamati*—have been recognized *Manahparyāya* may be compared to telepathy

The Jaina analysis of *avadhi* and *manahparyāya* shows that *avadhi* may be called paranormal while *manahparyāya* supernormal cognition *Avadhi* is possible even for lower animals and beings residing in hell, while man has to acquire it But only gifted human beings possess *manahparyāya* Even the gods residing in heaven may not possess it

In the West, interest in extra-sensory perception is increasing It is being investigated on an experimental basis since the establishment of the Society for Psychical Research The Duke University is foremost in this respect Psychologists like McDougall have said that extra-sensory perception like clairvoyance and telepathy seems also in a fair way established Dr Rhine has done good work in extra-sensory perception Prof Myers cites many instances of telepathic intuition

Kevala is the highest form of experience It is omniscience It is pure consciousness It intuits all substances and modes. Nothing remains to be known in omniscience The Jaina view of omniscience may be compared to the Nyāya view of divine knowledge and the *Yoga* theory of divine perception, although the Jaina emphasis is on the individual soul

It is difficult to establish the possibility of omniscience on the basis of empirical methods of investigation which psychology and the empirical sciences follow However, its logical possibility cannot be denied

The Journey of the Soul

The Jainas believe that the soul has an inherent capacity for self-realization The realization of the *self* is a realization of the transcendental *self* and not of the empirical *self* The soul has the tendency to free itself from the wheel of *samsāra*, but this tendency is obscured by the

veil of *karma* The attainment of *samyaktva*, right attitude, is a condition of finding the way to self-realization

In its wanderings in the wheel of *samsāra*, the soul sometimes gets the vision of the goal of liberation as also of the way to reach this goal It feels an impulse to make efforts to reach this goal This energy for effort is *yathāpravrtta karana* It is then set on the way to liberation The struggle consists in the twofold process known as *apūrva karaṇa* and *anivrtti karana* The process of *apūrva karana* enables the soul to cross the obstacles of *karma granthi* while *anivrtti karaṇa* leads it to the dawn of enlightenment

The way to self-realization is long and arduous It takes many difficult stages before perfection is reached The Jainas have mentioned fourteen stages in the struggle for perfection They are called *gunasthānas* The first four stages lead to the right vision (*samyaktva*), by removing the obscuration created by perversity of attitude It is purely an intellectual process It does not involve moral effort for self-realization These four stages may be compared to the progressive development of the attitude of the prisoner in 'the parable of the cave' in Plato's *Republic* In the struggle for attainment of perfection, the soul undergoes the vicissitudes of moral life, sometimes going up the stage of moral development and sometimes coming down This moral struggle starts with the fifth stage The fourteenth *gunasthāna* is the final stage of self-development It is called the state of *ayoga kevali* Thirteenth stage is the *Kaivalya* stage, and this is the final stage and it represents its last phase in life for a few moments only

Dr Nandimath compares the *gunasthānas* to the *sat-sthalas* of Vīraśaivism Prof Kundanagar in his introduction to *Adipurāna*, gives a similar view The struggle for perfection in the fourteen stages of self-development has great psychological importance, although psychology as a positive science will not be able to explain the significance of these stages

A study of the problems of psychology as presented by the Jainas is useful for a better understanding of the Jaina philosophy These problems have been interpreted in terms of the concepts of western psychology, especially the rational psychology An analysis of these problems in the light at once of ancient Indian thought and Western psychological thought gives a synoptic view of the nature and value of the problems that the Jainas presented

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